

Instructional Materials Evaluation Tool for Alignment in Mathematics Grades K – 12 (IMET)



Qualified for Abbreviated Review¹

Strong mathematics instruction contains the following elements:



Copyright: 2021

Title: Eureka Math²

Publisher: Great Minds PBC

Overall Rating: Tier 1, Exemplifies quality

Tier 1, Tier 2, Tier 3 Elements of this review:

STRONG	WEAK
1. Focus on Major Work (Non-negotiable)	
2. Consistent, Coherent Content (Non-negotiable)	
3. Rigor and Balance (Non-negotiable)	
 Focus and Coherence via Practice Standards (Non-negotiable) 	
5. Alignment Criteria for Standards for	
Mathematical Content	
6. Quality of Assessments	
7. Indicators of Quality	

Each set of submitted materials was evaluated for alignment with the standards beginning with a review of the indicators for the non-negotiable criteria. If those criteria were met, a review of the other criteria ensued.

Tier 1 ratings receive a "Yes" in Column 1 for Criteria 1-7.

Tier 2 ratings receive a "Yes" in Column 1 for all non-negotiable criteria, but at least one "No" for the remaining criteria. Tier 3 ratings receive a "No" in Column 1 for at least one of the non-negotiable criteria.

Click below for complete grade-level reviews:

Grade K (Tier 1) Grade 1 (Tier 1) Grade 2 (Tier 1) Grade 3 (Tier 1) Grade 4 (Tier 1) Grade 5 (Tier 1)

¹ Abbreviated Reviews are conducted in K-12 ELA and K-12 Math for submissions that **Meet Expectations** for Gateways 1 and Gateway 2 through EdReports. Reviewers considered these reports as they reviewed materials for alignment to Louisiana state standards and quality Non-negotiable indicators. See the full EdReports review at https://www.edreports.org/reports/overview/eureka-math2-2021.





Qualified for Abbreviated Review¹

FOCUS COHERENCE Focus strongly where the standards focus. COHERENCE Focus strongly where the standards focus strongly where the standards focus strongly where the standards focus strongly st

Strong mathematics instruction contains the following elements:

Title: Eureka Math²

Grade/Course: <u>K</u> Copyright: <u>2021</u>

Publisher: Great Minds PBC

Overall Rating: Tier 1, Exemplifies quality

Tier 1, Tier 2, Tier 3 Elements of this review:

STRONGWEAK1. Focus on Major Work (Non-negotiable).2. Consistent, Coherent Content (Non-negotiable).3. Rigor and Balance (Non-negotiable).4. Focus and Coherence via Practice Standards
(Non-negotiable).5. Alignment Criteria for Standards for
Mathematical Content.6. Quality of Assessments.7. Indicators of Quality.

¹ Abbreviated Reviews are conducted in K-12 ELA and K-12 Math for submissions that **Meet Expectations** for Gateways 1 and Gateway 2 through EdReports. Reviewers considered these reports as they reviewed materials for alignment to Louisiana state standards and quality Non-negotiable indicators. See the full EdReports review at <u>https://www.edreports.org/reports/overview/eureka-math2-2021</u>.





To evaluate instructional materials for alignment with the standards and determine tiered rating, begin with **Section I: Non-negotiable Criteria**.

- Review the **required**² Indicators of Superior Quality for each **Non-negotiable** criterion.
- If there is a "Yes" for all **required** Indicators of Superior Quality, materials receive a "Yes" for that **Non-negotiable** Criterion.
- If there is a "No" for any of the **required** Indicators of Superior Quality, materials receive a "No" for that **Non-negotiable** Criterion.
- Materials must meet **Non-negotiable** Criterion 1 and 2 for the review to continue to **Non-negotiable** Criteria 3 and 4. Materials must meet all of the **Non-negotiable** Criteria 1-4 in order for the review to continue to Section II.
- If materials receive a "No" for any **Non-negotiable** Criterion, a rating of Tier 3 is assigned, and the review does not continue.

If all Non-negotiable Criteria are met, then continue to Section II: Additional Criteria of Superior Quality.

- Review the **required** Indicators of Superior Quality for each criterion.
- If there is a "Yes" for all **required** Indicators of Superior Quality, then the materials receive a "Yes" for the additional criteria.
- If there is a "No" for any **required** Indicator of Superior Quality, then the materials receive a "No" for the additional criteria.

Tier 1 ratings receive a "Yes" for all Non-negotiable Criteria and a "Yes" for each of the Additional Criteria of Superior Quality.

Tier 2 ratings receive a "Yes" for all Non-negotiable Criteria, but at least one "No" for the Additional Criteria of Superior Quality.

Tier 3 ratings receive a "No" for at least one of the Non-negotiable Criteria.

² **Required Indicators of Superior Quality** are labeled "**Required**" and shaded yellow. Remaining indicators that are shaded white are included to provide additional information to aid in material selection and do not affect tiered rating.

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
Section I: Non-negotiable Criteria	of Superior Quality: Materials must meet Non-negot	iable Criteria 1 a 1-4 in order f	and 2 for the review to continue to
Non-negotiable 1. FOCUS ON MAJOR WORK ³ : Students and teachers using the materials as designed devote the large majority ⁴ of time to the major work of the grade/course. Yes	Required 1a) Materials devote the majority of class time to the major work of each grade/course.	Yes	Materials devote a large majority of time to the major work of the grade. Of the 126 lessons, 83% of instructional lessons are spent on major work of the grade. Specifically, 64% of lessons are spent on major standards, 18% of lessons are spent on a combination of major standards and supporting/additional standards, and 18% of lessons are spent on supporting or additional standards. Twelve of the lessons are labeled as optional.
	Required 1b) Instructional materials, including assessments, spend minimal time on content outside of the appropriate grade/course during core math instruction. Content beyond grade/course-level should be clearly labeled as optional.	Yes	Materials spend minimal time on content outside of the appropriate grade level. In assessment materials, assessment components do not make students/teachers responsible for any topics before the grade in which they are introduced. The instructional lessons and assessments focus on Grade K Louisiana Student Standards for Mathematics (LSSM). Observational assessments occur within the progression of lessons. Assessments are written using the language of the standards, such as "Can students solve the word problem by using objects or drawings to represent the story?" (LSSM K.OA.A.2) in Module 5, Topic B, Lesson 12. If students do not meet the standards in the observation

³ For more on the major work of the grade, see Focus by Grade Level. ⁴ The materials should devote at least 65% and up to approximately 85% of class time to the major work of the grade with Grades K–2 nearer the upper end of that range, i.e., 85%.

			assessments, an additional module
			assessment aligned to the standards is
			provided. The Louisiana Teacher
			Alignment Guide provides guidance and
			modifications for teacher implementation
			to align to the LSSM. Each lesson is aligned
			to at least one Grade K LSSM. Content
			exceeding the Grade K LSSM standards is
			clearly labeled. The materials do not
			assess topics before the grade in which
			they are introduced. For example, Lessons
			17 and 18 in Module 4, Topic C are labeled
			as optional. The objective of Lesson 17 is
			to organize, count, and represent a
			collection of objects. Students make a
			number bond with five parts with a total
			of over 20 which extends beyond the
			standard LSSM K.CC.A.1. The materials
			also indicate content within a lesson that
			extends beyond the work of the grade
			level in the Differentiation: Challenge
			margin notes which invite students to
			work with problem types they wouldn't
			typically encounter until Grade 1.
Non-negotiable	Required	Yes	Materials connect supporting content to
2. CONSISTENT, COHERENT	2a) Materials connect supporting content to major		major content in meaningful ways so that
CONTENT	content in meaningful ways so that focus and coherence		focus and coherence are enhanced
Each course's instructional	are enhanced throughout the year.		throughout the year. Major work is often
materials are coherent and			developed prior to supporting content and
consistent with the content in the			is then reinforced or applied in lessons
Standards.			that address supporting standards.
			Module 2 focuses on two- and three-
🗡 Yes 🔤 No			dimensional shapes (LSSM K.G.A.1,
			K.G.A.2). In Topic A, students analyze and
			name two-dimensional shapes. In Topic B,
			students analyze and name three-
			dimensional shapes. In Topic C, students

		construct shapes. Throughout the lessons, students apply counting concepts (LSSM
		4.CC.B.4) learned in the previous module
		as they count sides, corners, and faces of
		the shapes, reinforcing major Counting
		and Cardinality (CC) standards of the
		grade. In Module 3, Lessons 13-15,
		students use counting and comparing
		strategies developed earlier in the module
		and grade (major LSSM K.CC.C.6) to
		classify objects into categories based on
		their attributes (supporting LSSM
		K.MD.B.3). In Lesson 13, students first sort
		objects in two groups and then choose a
		strategy to compare two groups of cubes
		to determine which group has more or
		fewer. In Lesson 14, students continue to
		compare sets by first sorting number stairs
		into two groups and then matching each
		stair to a number on the number path.
		Finally, in Lesson 15, students sort
		different sized shapes, compare the
		number of shapes in each group, and then
		order the groups from fewest to most
		shapes.
Required	Yes	Materials include problems and activities
2b) Materials include problems and activities that serve		that connect two or more clusters in a
to connect two or more clusters in a domain , or two or		domain and/or two or more domains in
more domains in a grade/course , in cases where these		the grade level where these connections
connections are natural and important.		are natural and important. For example,
		Module 1, connects Clusters A (Know
		number names and the count sequence)
		and B (Count to tell the number of
		objects) of the Counting and Cardinality
		(CC) domain as students count accurately
		and consider reasons to count and use
		numbers (LSSM K.CC.A.1, K.CC.A.3,

	K.CC.B.4.A, K.CC.B.4.B). Students count
	different manipulatives and objects such
	as foods and grocery lists. In addition to
	practicing numeral formation in isolation,
	students find purpose in counting and
	writing numbers through the familiar
	context of a restaurant in Module 1,
	Topics C and F. Through real-world
	applications, students discover the utility
	and efficiency of recording with a numeral
	(LSSM K.CC.A.3). The focus turns to varied
	configurations and conservation (LSSM
	K.CC.B.5) in Module 1, Topic E as students
	strategize to produce an accurate count.
	In Module 6, Lesson 7, students use
	number bonds, manipulatives, and models
	to decompose teen numbers. The lesson
	connects Clusters A (Know number names
	and the count sequence) and B (Count to
	tell the number of objects) of the Counting
	and Cardinality (CC) domain. The lesson
	also connects the Counting and Cardinality
	(CC), Operations in Algebraic Thinking
	(OA), and Number and Operations in Base
	Ten (NBT) domains. During the lesson,
	students write numbers up to 20
	(K.CC.A.3), count to objects up to 20
	(K.CC.B.5a), add and subtract using objects
	and drawings (K.OA.A.2), and compose
	and decompose numbers 11-19
	(K.NBT.A.1). As the last module of the
	course, the lessons provide students the
	opportunity to learn and practice
	standards within multiple domains. The
	Fluency and Launch components of the
	lessons spiral skills throughout the
	modules.

 Non-megurate S. RGOR AND BALANCE: B. ALTENTION TO Conceptual Understanding: Materials develop conceptual understanding of key mathematical develop conceptual understanding of key mathematical content standards or cluster headings by featuring high- quality conceptual problems and discussion questions. Yes No 	New resetistic	Demuined	Vee	Materiala develor concentual
 Sin Kindon Andro Bankretter Sin Kindon Andro Bankre		Required	res	waterials develop conceptual
 Each grade sinstructional materials Each grade sinstructiona	5. RIGOR AND BALANCE.	say Allention to conceptual understanding of key methometical		and a sense of the
 The concepts, especially where called for explicitly in specific Standards and help students meet the standards or cluster headings by featuring high- quality conceptual problems and discussion questions. The conceptual question of the modules, the materials provide activities and discussion prompts to build conceptual understanding, procedural skill and fluency, and application. Yes No 	reflect the belonces in the	develop conceptual understanding of key mathematical		concepts, especially where called for
Standards and neighting students meet the Standards of cluster headings by reaturing high- quality conceptual understanding, procedural skill and fluency, and application. Yes No Yes No Yes Conceptual understanding of the conceptual understanding of the conceptual understanding of the conceptual understanding, of the conceptual understanding of the conceptual understanding of the conceptual understanding of the conceptual understanding of the conceptual understanding of the conceptual understanding of the conceptual understanding of the conceptual understanding of the conceptual understanding. The understanding of the conceptual understanding of the conceptual understanding of the conceptual understanding of the conceptual understanding. For example, in Module 1, Toroughout the materials, students use visual models, multiple representations, and manipulatives to build conceptual understanding. For example, in Module 1, Toroughout categories and counting. Within the lessons, quantities are represented visually in order to support students in building mental representations of numbers. For example, in Lesson 3, students take the items in their classified groups and count them by putting each item in a box under an identified number. In the next lesson, students order to support students order of the supp	Standards and hale students most	concepts, especially where called for explicitly in specific		Explicitly in the standards.
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Topic B, students continue to answer "how many" questions up to 5. In Lesson 6. students continue counting items in a				each group (LSSM K.MD.B.3). In Module 1.
"how many" questions up to 5. In Lesson				Topic B. students continue to answer
6 students continue counting items in a				"how many" questions up to 5. In Lesson
				6. students continue counting items in a

	group by touching and counting them
	(LSSM K.CC.B.4a, K.CC.B.4b, K.CC.B.5).
	Students continue to build conceptual
	understanding of counting and cardinality
	for numbers up to 5 in Lessons 7-9. Topic E
	builds on Topic B as students extend
	number core concepts and counting
	strategies to sets of 6-10 objects,
	increasing difficulty and rigor. The lessons
	progress by presenting items, objects, and
	numerals in a more scattered
	configuration with students accurately
	identifying the number of objects in a set
	(LSSM K.CC.B.4a, K.CC.B.4b, K.CC.B.5). In
	Lesson 23, students count different items
	in different orders but conserve the total
	of the set. For example, in the Learn
	section, students use a provided starting
	point and identify how many tiles are
	represented. Then, students spill beans
	out of a cup and identify how many beans
	(regardless of starting point). Then, in the
	problem set and debrief, students use
	unifix cubes and a number line to identify
	how many items are in their set. In
	Module 4, students focus on composition
	and decomposition of numbers before
	engaging in operations in Module 5 (LSSM
	K.OA.A.3). For example, in Module 4,
	Lesson 15, students model the
	decomposition of a group of 8 by acting
	out a story problem with a prompt of
	sitting or standing. From the models,
	students discuss a number bond or
	number sentence model by their actions.
	Throughout the lesson, students build
	conceptual understanding through story

		problems and are encouraged to use
		number bonds, math drawings, and ten-
		frames to model the decomposition of
		numbers less than or equal to 10. With the
		understanding of part-total relationships
		in a variety of contexts, students have the
		prerequisite knowledge to comprehend
		the meaning of addition and subtraction
		as they progress to Module 5. In the
		lessons, when students first write number
		sentences, everyday words such as "and"
		and "make" are coupled with the
		mathematical terminology "plus" and
		"equal," supporting students in making
		meaning of number sentences. Students
		further demonstrate conceptual
		understanding by working in reverse as
		they tell a story to match a given number
		sentence in Module 5 Lessons 6 and 13.
		Throughout Module 5, Topics A and B,
		students regularly solve story situations,
		reinforcing the relationship between the
		equation and the context.
Required	Yes	Materials are designed so that students
3b) Attention to Procedural Skill and Fluency: The		attain the fluencies and procedural skills
materials are designed so that students attain the		required by the standards. Each lesson
fluencies and procedural skills required by the content		begins with fluency practice to support a
standards. Materials give attention throughout the year		progression of learning over time
to individual standards that set an expectation of		throughout the course. Students have
procedural skill and fluency. In grades K-6, materials		opportunities to develop procedural skills
provide repeated practice toward attainment of fluency		aligned with the standards in the
standards. In higher grades, sufficient practice with		materials. Fluency routines are developed
algebraic operations is provided in order for students to		over time to support students in counting
have the foundation for later work in algebra.		and calculating as they are used
		consistently across lessons and include
		activities such as choral response,
		Whiteboard Exchange, and Sprint. The

	implementation guide provides guiding
	questions and suggestions for fluency
	implementation. Additionally, fluency is
	expected as an end-of-the-year
	performance expectation but can be
	achieved at various points throughout the
	year. Students use a Counting Glove,
	Beans and Hands Mat, and Whisper-Shout
	Counting Strategy in Module 1, Topic A
	which encourages students to practice and
	develop their counting and cardinality
	skills (LSSM K.CC.A.1 and LSSM K.CC.A.2).
	In Module 1, Topic B, Lesson 8, students
	count figures in linear and scattered
	configurations found in pieces of artwork
	(LSSM K.CC.B.5a and K.CC.B.5b). Students
	discuss procedural counting strategies
	when responding to the given prompts in
	the lesson, such as identifying the number
	of white flowers and explaining why a
	different strategy was used to count the
	scattered flowers versus the flamingos,
	which are arranged in a line. The lesson
	closes with a whole-group discussion
	about when it is appropriate to use each
	of the counting strategies (touch and
	count, move and count, or mark and
	count). In Module 1, Topic E, Lesson 19,
	students practice the fluency standards of
	counting objects in a collection (LSSM
	K.CC.B.5a, K.CC.B.5b). As students count
	items, teachers complete observational
	assessments to ensure that students are
	saying the correct number sequence and
	the last number in the count to identify
	the total. In Module 4, Lessons 17 and 18,
	students find partner numbers to make 5

		and 10. These foundational lessons support student fluency in knowing sums to 10. In Module 5, students apply counting and cardinality concepts to develop fluency with addition and subtraction as they move from counting all, counting on, and making simple addition and subtraction problems. In Module 5, Topic A, Lessons 1-6, students develop addition concepts with context, and, in Lesson 7, students add two parts to find the total without story context to build fluency within 5 (LSSM K.OA.A.5). The same structure is used in Topic B, as students develop subtraction concepts in Lesson 8-13, and, then, in Lesson 14, students subtract to find the difference without context to build fluency within 5 (LSSM K.OA.A.5).
Required 3c) Attention to Applications: Materials are designed so that teachers and students spend sufficient time working with engaging applications, including ample practice with single-step and multi-step contextual problems, including non-routine problems, that develop the mathematics of the grade/course, afford opportunities for practice, and engage students in problem solving. The problems attend thoroughly to those places in the content standards where expectations for multi-step and real-world problems are explicit.	Yes	Materials are designed so that students spend sufficient time working with engaging applications. The materials provide engaging applications with frequent practice of single and multi-step problems. The progression of the modules includes opportunities within the lessons to apply conceptual understanding and procedural skills within the context of real- world problems. Students answer questions in pairs, small groups, and whole groups where they justify and explain their reasoning. Lessons include explicit instruction for solving word problems and student-led problem-solving opportunities. The LSSM for Grade K includes one application standard, LSSM K.OA.A.2. This standard is first addressed

	in Madula 4 Tania C Lasson 11 oftar
	in Module 4, Topic C, Lesson 11 after
	students have developed an
	understanding of counting and cardinality
	In Module 1-3. In Module 4, Topics A and
	B, students compose and decompose
	numbers answering how many questions
	within a part-total scenario. In Topic C,
	students apply conceptual understanding
	and procedural skills to real-world
	addition problems. Students solve
	addition problems within 10 using
	drawings and objects (LSSM K.OA.A.2).
	During the topic, students transition from
	part-total thinking into decomposition and
	composition through story contexts as
	they identify parts and totals to find the
	unknown. Problem types include Put
	Together with the total unknown and Take
	Apart with both addends unknown. The
	materials include photographs of animals
	and crayons and objects, such as beans,
	bean bags, and cubes to model addition
	and subtraction. In Lesson 12, students
	draw the ducks in a scenario of both adult
	and baby ducks to be able to compose the
	total number of ducks represented in the
	story. In Lesson 13, students draw to
	model parts of the story. Students then
	discuss and determine which strategies
	work best for them. For example, Libby's
	way of solving the story to find the
	unknown is to use unifix cubes and create
	a number bond. Jason's way of solving the
	same story is to draw the dots in the
	circles of the number bond in order to find
	the unknown. Both arrive at a total of 9
	pennies for a pencil. The materials suggest

		students who are struggling with the
		abstract story of the part-total
		relationship benefit from hearing their
		peer's explanations and strategies. This
		lesson specifically activates background
		knowledge about tools in general and
		clarifies the meaning of tools in the
		context of math. This lesson focuses on
		choosing and using math tools such as
		cubes, number bonds, drawings, and 10-
		frames. In Lesson 14, students model
		taking apart with given addends in
		unknown situations, such as "Jackson is
		playing with 10 blocks. Some are in the
		tower and some are not. Show how they
		could look."
Required	Yes	It is evident in the materials that the three
3d) Balance: The three aspects of rigor are not always		aspects of rigor are not always treated
treated together and are not always treated separately.		together and are not always treated
		separately. The materials reflect the
		balance of rigor in the standards. The
		Grade K LSSM focus heavily on conceptual
		understanding, and the structure of the
		materials help students develop the
		foundational concepts and skills necessary
		to build and apply math knowledge.
		Procedural skills and fluency appear in
		each lesson in the opening fluency activity.
		The Fluency component enables students
		to develop fluency with skills from all
		clusters. The Launch and Learn
		components engage students in both
		conceptual understanding and procedural
		skill and fluency. The Problem Set and Exit
		Ticket offer students the opportunity to
		independently apply their procedural skill
		and fluency, show their conceptual

	understanding and solve applications
	such as word problems. In Land, students
	often engage in a discussion about their
	concentual understanding of the student
	work Specific lessons focus on the
	work. Specific lessons locus on the
	application standard, LSSIVI K.OA.A.2, and
	application skills are interwoven
	throughout the materials in other
	modules. Module 1, Topic E, Lesson 20
	provides an example of how the aspects of
	rigor are not always treated separately. In
	this lesson, students are formally
	introduced to the 5-group model.
	Conceptually, students learn to recognize
	numbers 6-10 relative to 5, thinking of 6
	as 5 and 1, for example (LSSM K.CC.A.3,
	LSSM K.CC.B.4b, and LSSM K.CC.B.5).
	Students relate this new model to a
	familiar one that also relies on grouping 5
	as a unit, a finger-counting method known
	as counting the math way. The fluency
	component enables students to develop
	fluency with skills from all clusters such as
	addition and subtraction within 5. Fluency
	is developed as students continue to learn
	new strategies throughout the materials.
	Module 5, Topic A, Lesson 3 demonstrates
	this progression as students review and
	work on fluency skills, then use those skills
	to explore a scenario that requires them
	to apply their understanding of addition
	and subtraction to a problem with
	children on a rollercoaster. Students
	spend the majority of the lesson
	constructing methods and strategies for
	solving the question from the story and
	then share their strategies with the class

			to identify the procedural components for all (LSSM K.CC.B.5 and LSSM K.CC.B.6). In Module 4, Topic C, Lesson 15, all three aspects of rigor are presented in conjunction for students to answer the culminating question of "How do you decide to write an addition or subtraction sentence for a story?" The materials provide real-world story prompts along with the use of conceptual models and practice with procedural skills of addition and subtraction (LSSM K.OA.A.1, LSSM K.OA.A.2, and LSSM K.OA.A.3).
Non-negotiable 4. FOCUS AND COHERENCE VIA PRACTICE STANDARDS: Aligned materials make meaningful and purposeful connections that promote focus and coherence by connecting practice standards with content that is emphasized in the Standards. Materials address the practice standards in a way to enrich and strengthen the focus of the content standards instead of detracting from them. Yes No	Required 4a) Materials attend to the full meaning of the practice standards. Each practice standard is connected to grade/course-level content in a meaningful way and is present throughout the year in assignments, activities, and/or problems.	Yes	Materials attend to the full meaning of each practice standard. Each practice standard is connected to grade-level content and is meaningfully present throughout the materials. The materials support students' habits of mind based on the mathematical practices while also building conceptual understanding, developing fluency, and applying understanding. Margin notes in the teacher materials provide cues and connections to the work of the students and the Standards for Mathematical Practice. Each lesson in the modules has a section titled, "Promoting the Standards for Mathematical Practice," which identifies the mathematical practice standards present in the lesson. This section also provides context of where Grade K students should be in the progression of the mathematical practices. For example, Module 3 focuses on the comparison of measurement units. In Lesson 6, students reason abstractly and

		quantitatively (MP.2) as they compare the
		lengths of cube sticks by using numbers
		instead of direct comparisons (LSSM
		K.MD.A.2). In Module 4, Topic B, Lesson
		10, students model with mathematics
		(MP.4) as they draw a picture and a
		number bond to match how they sorted
		their collection of objects (LSSM
		K.OA.A.1). This lesson gives students a
		chance to create a concrete model, a
		drawing, to determine the unknown and
		then represent a more abstract model, a
		number bond. In Module 5, Lesson 6,
		students participate in a Number Sentence
		Hunt. Table groups use a card with a
		number sentence and search the room for
		a picture to match the number sentence.
		Multiple pictures for some of the number
		sentences provide students the
		opportunity to question, critique, justify,
		and defend their selections (MP.3) by
		asking questions and answering their
		peers (LSSM K.OA.A.1). In Module 5,
		Lesson 26, students look for and make use
		of structure by looking for and making use
		of patterns (MP.7). Students find patterns
		when they add different numbers to a
		specific number and a specific number to
		different numbers using a robot as a visual
		(LSSM K.OA.A.1, LSSM K.OA.A.2, LSSM
		K.OA.A.3, and LSSM K.OA.A.4).
Required	Yes	Materials provide sufficient opportunities
4b) Materials provide sufficient opportunities for		for students to construct viable arguments
students to construct viable arguments and critique the		and critique the arguments of others
arguments of others concerning key grade/course-level		concerning key grade-level mathematics
mathematics that is detailed in the content standards		that is detailed in the content standards.
(cf. MP.3). Materials engage students in problem solving		The lessons are structured with

as a form of argument, attending thoroughly to places in	opportunities for students to engage in
the standards that explicitly set expectations for multi-	mathematical reasoning through
step problems.	discussion questions and prompts. The
	materials provide opportunities for
	students to form viable arguments and
	critique the arguments of others
	throughout the lessons. Lessons also
	include several routines designed to
	promote discourse. For example, students
	determine a misconception in sample
	work and then construct viable arguments
	to convince the teacher of the correct
	solution path or solution. The materials
	also provide opportunities for students to
	conduct error analyses. For example, in
	Module 5, Lesson 13, the teacher reads a
	subtraction story about 6 baseballs and 2
	are taken away. The teacher shows the
	students a picture of 6 baseballs and 2 of
	them are crossed out. Then, students
	observe two number sentence cards, 6-
	2=4 and 4-2=2. The teacher then
	challenges the students to choose the
	number sentence that represents the
	subtraction story while also pointing out
	that they can see the 4 baseballs not
	crossed out and the 2 crossed out so "4-
	2=2" must be the accurate response.
	Students are challenged to find the flaw in
	the teacher's reasoning and explanation as
	well as use precise language to explain the
	part-total relationship between the
	number sentence and the pictorial model.
	In Module 4, Lesson 15, students explain
	their thinking by modeling different
	drawings. Since there is more than one
	way, students analyze and discuss each
	, , , , , , , , , , , , , , , , , , , ,

		other's models. In Lesson 17, students count a collection of items with a partner and explain their reasoning for how they organized the objects to prepare to count them, either by color, shape, or object. In Module 5, Lesson 6, students participate in a Number Sentence Hunt. Table groups are given a card with a number sentence and encouraged to search the room for a picture to match the number sentence. There are multiple pictures for some of the number sentences that give students the opportunity to question, critique, justify, and defend their selections by asking questions and answering their peers.
Required 4c) Materials explicitly attend to the specialized language of mathematics.	Yes	Materials explicitly attend to the specialized language of mathematics. The materials use and encourage the use of accurate mathematical terminology as appropriate for the grade level. The Terminology Resource identifies the specialized language of mathematics that is used throughout a module. The resource lists New and Familiar terminology with definitions and descriptions from the module. Items in the New category are discipline-specific words that are introduced to students within the module. These items include the definition, description, or illustration as it is presented to students. Language Support margin notes embedded in the lessons provide guidance to teachers as they support students with the specialized language of mathematics. Each Module Overview and Module Assessment

	Description addresses the proper
	terminology for students to use as well as
	definitions for key terms. The sample
	dialogue in each lesson includes the
	terminology teachers should expect from
	their students when they answer
	questions or share their thinking. For
	example, in Module 3, the Topic A
	Overview highlights the importance of
	students using precise terminology and
	making complete comparison statements
	frequently and consistently throughout
	the lessons. In Lesson 1, students reason
	why animals were circled in a city-scape
	picture to notice the measurable attribute
	of length. Then, they then compare the
	animal's sizes to each other and in relation
	to the building in the picture. The margin
	notes explain that students will describe
	measurable attributes precisely
	throughout the module. In Module 4,
	students classify geometric figures based
	on their attributes. Students use
	vocabulary words to describe the figures,
	such as curves, straight sides, corners,
	open and closed. Students act out these
	terms with their fingers and whole bodies
	in various lessons to build the connection
	between the definition and what it looks
	like and to foster the retention of the
	definition. Students also use position
	words and names of the figures, such as
	triangles, rectangles, and hexagons. In the
	Proficiency Indicators at the end of the
	unit, students describe objects in their
	classroom environment using the
	vocabulary words for figures. In Module 6,

		students build place value foundations. Vocabulary such as total and parts are reinforced through each lesson as students count to 100 and decompose numbers. Students use these vocabulary terms to make number bonds and choose operations for number sentences. Sample student responses contain total, parts, and number sentences in the answers students provide.
4d) There are teacher-directed materials that explain the role of the practice standards in the classroom and in students' mathematical development.	Yes	Materials include teacher-directed materials that explain the role of the practice standards in the classroom and in students' mathematical development. The materials provide a full explanation of the purpose and intent of the practice standards with in-lesson connections and context for instruction. Each lesson contains a section entitled "Promoting the Standards for Mathematical Practice" that links a specific practice standard to the content of the lesson. The section provides the context of the progression of the standard in the current grade level and in future learning. It provides a specific reference of the lesson activity that implements the practice standard. At the conclusion of each Module, when reviewing achievement descriptors and standards, mathematical practice standards are listed for each module. Within the Implementation Guide, the mathematical practices are explained and highlighted in the margin notes as they appear in specific lessons. Additionally, in the Implementation Guide, the grade level

	listed for educators as they are presented
	in all modules. In the section highlighting
	Lesson Facilitation, the guide describes
	effective delivery as "delivery that fosters
	student ownership and belonging. This
	curriculum supports this aspect by
	naturally presenting opportunities for
	students to practice the mathematical
	practice standards as they arise within the
	lessons." For example, Module 2, Lesson
	2, the margin notes connect the activity to
	MP.3 and MP.6, and Lesson 1. The notes
	coach the teacher to encourage students
	to construct viable arguments for the
	shape classification using precise language
	learned in Lesson 1. The margin notes
	provide guided questions to intervene if
	students disagree by asking, "What
	questions can you ask your partner about
	why they think this is or isn't a triangle?"
	or "Can you use words like straight sides,
	corners, and closed to explain why you
	think this is or isn't a triangle? Try it!" In
	Module 5, Lesson 9, the materials state
	that "Mathematicians use a special symbol
	to write a subtraction number sentence.
	Instead of writing take away, they write a
	minus sign." The Promoting the Standards
	for Mathematical Practice in this section
	references MP.2, reasoning abstractly and
	quantitatively, as students
	"decontextualize the idea of taking away
	by using the minus sign. When they read
	the number sentence as a storyteller, they
	contextualize the minus sign as the
	takeaway part of the story." The questions
 	provided in each mathematical practice

		margin note are written in language appropriate to the grade level, promote engagement in the identified math practice, and are coherent across grades.
Section II: Additional Alignment (Criteria and Indicators of Superior Quality	
 5. ALIGNMENT CRITERIA FOR STANDARDS FOR MATHEMATICAL CONTENT: Materials foster focus and coherence by linking topics (across domains and clusters) and across grades/courses by staying consistent with the progressions in the Standards. Yes No 	 Required Sa) Materials provide all students extensive work with grade/course-level problems. Required Sb) Materials relate grade/course-level concepts explicitly to prior knowledge from earlier grades and courses. The materials are designed so that prior knowledge is extended to accommodate the new knowledge, building to core instruction, on grade/course-level work. Lessons are appropriately structured and scaffolded to support student mastery. Required Sc) There is variety in what students produce. For example, students are asked to produce answers and solutions, but also, in a grade/course-appropriate way, arguments and explanations, diagrams, mathematical models, etc. Sd) Support for English Language Learners and other special populations is provided. The language in which 	See EdReports for more information.
	problems are posed is not an obstacle to understanding the content, and if it is, additional supports (suggestions for modifications, "vocabulary to preview", etc.,) are included.	
6. QUALITY OF ASSESSMENTS:	Required	
Materials offer assessment opportunities that genuinely measure progress and elicit direct, observable evidence of the degree	6a) Multiple assessment opportunities are embedded into content materials and measure student mastery of standards that reflect the balance of the standards as presented in materials.	
to which students can independently demonstrate the assessed grade-specific Louisiana	Required 6b) Assessment items include a combination of tasks that require students to demonstrate conceptual	

Student Standards for	understanding, demonstrate procedural skill and	
Mathematics.	fluency, and apply mathematical reasoning and	
	modeling in real world context. Assessment items	
	require students to produce answers and solutions,	
	arguments, explanations, and models, in a grade/course-	
	appropriate way.	
	6c) Scoring guidelines and rubrics align to standards,	
	incorporate criteria that are specific, observable, and	
	measurable, and provide sufficient guidance for	
	interpreting student performance, misconceptions, and	
	targeted support to engage in core instruction.	
	6d) Materials provide 2-3 comprehensive assessments	
	(interims/benchmarks) that measure student learning up	
	to the point of administration.	
7. ADDITIONAL INDICATORS OF	Required	
QUALITY:	7a) The content can be reasonably completed within a	
Materials are well organized and	regular school year and the pacing of content allows for	
provide teacher guidance for units	maximum student understanding. The materials provide	
and lessons.	guidance about the amount of time a task might	
	reasonably take.	
Materials provide timely supports	Required	
to target specific skills/concepts to	7b) The materials are easy to use and well organized	
address students' unfinished	for students and teachers. Teacher editions are concise	
learning in order to access grade-	and easy to manage with clear connections between	
level work.	teacher resources. Guidance is provided for lesson	
	planning and instructional delivery, lesson flow,	
	questions to help prompt student thinking, and	
	expected student outcomes.	
	Required	
	7c) Materials include unit and lesson study tools for	
	teachers, including, but not limited to, an explanation of	
	the mathematics of each unit and mathematical point of	
	each lesson as it relates to the organizing concepts of	
	the unit and discussion on student ways of thinking and	
	anticipating a variety of student responses.	

7d) Materials identify prerequisite skills and concepts	Yes	Materials identify prerequisite skills and
for the major work of the grade/course connected to		concepts for the major work of the grade
the current on-grade/course-level work		when applicable Each module contains a
		section titled "Before This Module" and
		"After This Module " In Module 1, the
		Soction says that Grade K "students do not
		section says that Grade K students do not
		Neth or one preschool curriculum at the
		Math of any preschool curriculum at the
		beginning of the module. However, many
		modules from prekindergarten directly
		support the work in this module." Later
		modules reference skills that Grade K
		students obtained in prior modules. At the
		beginning of Module 3, Topic A, the topic
		overview states "Young children have
		many experiences with height and length
		before entering kindergarten." The later
		modules build, scaffold, and spiral through
		information that is previously learned
		throughout the materials. For example, in
		Module 5, Addition and Subtraction, the
		Before This Module section states that in
		Module 4, students "explore number
		relationships through sorting, games, and
		math stories."
7e) Materials provide guidance to help teachers identify	No	Materials do not provide guidance to help
students who need prerequisite work to engage		teachers identify students who need
successfully in core instruction, on-grade/course-level		prerequisite work to engage successfully
work.		in core instruction. All assessments focus
		on Grade K standards. There are no
		diagnostic or pre-assessments prior to
		instruction. There is no specific guidance
		on how to identify or support students
		missing the prerequisite skills. However.
		guidance in Module 1 notes that students
		do not require any preschool lessons to
		do not require any preschool lessons to

			access the material in the Grade K materials
	7f) Materials provide targeted , aligned , prerequisite work for the major work of the grade/course, directly connected to specific lessons and units in the curriculum.	No	Materials. Materials do not provide targeted, aligned, prerequisite work for the major work of the grade directly connected to specific lessons and units in the curriculum. However, content is reviewed in later lessons and included on the Observational Assessments Recording Sheets, but no prior content is required by the materials. For example, Module 4, Topic A, Lesson 1, Shapes and Attributes, helps students reactivate knowledge of shape identification from Module 2 so that they can do the more sophisticated work of composing shapes and counting the parts. The fluency component is a review of previous material. Future modules build on the previous ones by introducing larger numbers and/or decompositions/compositions. In Module 5, Topic A, the overview notes, "In previous modules, students describe part- total relationships, such as, '9 is 7 and 2, or '7 and 2 is 9'. In Topic A, they begin to read number sentences using mathematical language, '7 plus 2 equals 9' or '9 is 7 plus 2'."
	7g) Materials provide clear guidance and support for teachers about the structures that allow students to appropriately address unfinished learning using prerequisite work.		See EdReports for more information.
FINAL EVALUATION <i>Tier 1 ratings</i> receive a "Yes" for all N <i>Tier 2 ratings</i> receive a "Yes" for all N <i>Tier 3 ratings</i> receive a "No" for at lease	Non-negotiable Criteria and a "Yes" for each of the Additio Non-negotiable Criteria, but at least one "No" for the Addit Past one of the Non-negotiable Criteria.	nal Criteria of Sup tional Criteria of S	erior Quality. uperior Quality.

Compile the results for Sections I and II to make a final decision for the material under review.

Section	Criteria	Yes/No	Final Justification/Comments
I: Non-negotiable Criteria of Superior Quality ⁵	1. Focus on Major Work	Yes	Materials devote a large majority of time to the major work of the grade. Materials spend minimal time on content outside of the appropriate grade level. In assessment materials, assessment components do not make students/teachers responsible for any topics before the grade in which they are introduced.
	2. Consistent, Coherent Content	Yes	Materials connect supporting content to major content in meaningful ways so that focus and coherence are enhanced throughout the year. Materials include problems and activities that connect two or more clusters in a domain and/or two or more domains in the grade level where these connections are natural and important.
	3. Rigor and Balance	Yes	Materials develop conceptual understanding of key mathematical concepts, especially where called for explicitly in the standards. Materials are designed so that students attain the fluencies and procedural skills required by the standards. Materials are designed so that students spend sufficient time working with engaging applications. It is evident in the materials that the three aspects of rigor are not always treated together and are not always treated separately.
	4. Focus and Coherence via Practice Standards	Yes	Materials attend to the full meaning of each practice standard. Each practice standard is connected to grade-level content and is meaningfully present

⁵ Must score a "Yes" for all Non-negotiable Criteria to receive a Tier 1 or Tier 2 rating.

		throughout the materials. Materials	
		provide sufficient opportunities for	
		students to construct viable arguments	
		and critique the arguments of others	
		concerning key grade-level mathematics	
		that is detailed in the content standards.	
		Materials explicitly attend to the	
		specialized language of mathematics.	
		Materials include teacher-directed	
		materials that explain the role of the	
		practice standards in the classroom and in	
		students' mathematical development.	
	5. Alignment Criteria for Standards for Mathematical	See EdReports for more information.	
	Content		
	6. Quality of Assessments	See EdReports for more information.	
		Materials identify prerequisite skills and	
		concepts for the major work of the grade	
II: Additional Alignment Criteria		when applicable. Materials do not provide	
and Indicators of Superior Quality ⁶		guidance to help teachers identify	
and indicators of Superior Quanty		students who need prerequisite work to	
	7. Additional Indicators of Quality	engage successfully in core instruction.	
		Materials do not provide targeted,	
		aligned, prerequisite work for the major	
		work of the grade directly connected to	
		specific lessons and units in the	
		curriculum.	
FINAL DECISION FOR THIS MATERIAL: Tier 1. Exemplifies quality			
That becaute to this matchine. The 1, exemplines quality			

⁶ Must score a "Yes" for all Additional Criteria of Superior Quality to receive a Tier 1 rating.





Qualified for Abbreviated Review¹

Focus strongly where the standards focus. Focus strongly where the standards focus is the standards focus the standard

Title: Eureka Math²

Grade/Course: <u>1</u> Copyright: <u>2021</u>

Publisher: Great Minds PBC

Overall Rating: Tier 1, Exemplifies quality

Tier 1, Tier 2, Tier 3 Elements of this review:

Strong mathematics instruction contains the following elements:

STRONG	WEAK
1. Focus on Major Work (Non-negotiable)	
2. Consistent, Coherent Content (Non-negotiable)	
3. Rigor and Balance (Non-negotiable)	
4. Focus and Coherence via Practice Standards	
(Non-negotiable)	
5. Alignment Criteria for Standards for	
Mathematical Content	
6. Quality of Assessments	
7. Indicators of Quality	

¹ Abbreviated Reviews are conducted in K-12 ELA and K-12 Math for submissions that **Meet Expectations** for Gateways 1 and Gateway 2 through EdReports. Reviewers considered these reports as they reviewed materials for alignment to Louisiana state standards and quality Non-negotiable indicators. See the full EdReports review at <u>https://www.edreports.org/reports/overview/eureka-math2-2021</u>.





To evaluate instructional materials for alignment with the standards and determine tiered rating, begin with **Section I: Non-negotiable Criteria**.

- Review the **required**² Indicators of Superior Quality for each **Non-negotiable** criterion.
- If there is a "Yes" for all **required** Indicators of Superior Quality, materials receive a "Yes" for that **Non-negotiable** Criterion.
- If there is a "No" for any of the **required** Indicators of Superior Quality, materials receive a "No" for that **Non-negotiable** Criterion.
- Materials must meet **Non-negotiable** Criterion 1 and 2 for the review to continue to **Non-negotiable** Criteria 3 and 4. Materials must meet all of the **Non-negotiable** Criteria 1-4 in order for the review to continue to Section II.
- If materials receive a "No" for any **Non-negotiable** Criterion, a rating of Tier 3 is assigned, and the review does not continue.

If all Non-negotiable Criteria are met, then continue to Section II: Additional Criteria of Superior Quality.

- Review the **required** Indicators of Superior Quality for each criterion.
- If there is a "Yes" for all **required** Indicators of Superior Quality, then the materials receive a "Yes" for the additional criteria.
- If there is a "No" for any **required** Indicator of Superior Quality, then the materials receive a "No" for the additional criteria.

Tier 1 ratings receive a "Yes" for all Non-negotiable Criteria and a "Yes" for each of the Additional Criteria of Superior Quality.

Tier 2 ratings receive a "Yes" for all Non-negotiable Criteria, but at least one "No" for the Additional Criteria of Superior Quality.

Tier 3 ratings receive a "No" for at least one of the Non-negotiable Criteria.

² **Required Indicators of Superior Quality** are labeled "**Required**" and shaded yellow. Remaining indicators that are shaded white are included to provide additional information to aid in material selection and do not affect tiered rating.

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
Section I: Non-negotiable Criteria of Superior Quality: Materials must meet Non-negotiable Criteria 1 and 2 for the review to continue to Non-negotiable Criteria 1-4 in order for the review to continue to Section II.			
Non-negotiable 1. FOCUS ON MAJOR WORK ³ : Students and teachers using the materials as designed devote the large majority ⁴ of time to the major work of the grade/course. Yes	Required 1a) Materials devote the majority of class time to the major work of each grade/course.	Yes	Materials devote a large majority of time to the major work of the grade. Of the 144 lessons, 89%, of instructional lessons, are spent on major work of the grade. Specifically, 83% of lessons are spent on major standards, 6% are spent on a combination of major standards and supporting/additional standards, and 11% are spent on supporting or additional standards. Four of the lessons are labeled as optional.
	Required 1b) Instructional materials, including assessments, spend minimal time on content outside of the appropriate grade/course during core math instruction. Content beyond grade/course-level should be clearly labeled as optional.	Yes	Materials spend minimal time on content outside of the appropriate grade level. In assessment materials, assessment components do not make students/teachers responsible for any topics before the grade in which they are introduced. The instructional lessons and assessments focus on Grade 1 Louisiana Student Standards for Mathematics (LSSM). Observational assessments occur within the lesson and use the language of the standards. In Module 2, Topic D, Lesson 18, the end of lesson Exit Ticket assess if students can subtract using a related addition fact (LSSM 1.OA.B.4). This formative data informs instructional decisions for future lessons in the module. The Louisiana Teacher Alignment Guide

³ For more on the major work of the grade, see Focus by Grade Level. ⁴ The materials should devote at least 65% and up to approximately 85% of class time to the major work of the grade with Grades K–2 nearer the upper end of that range, i.e., 85%.

			provides guidance and modifications for
			teacher implementation to align to the
			ISSM. Each lesson is aligned to at least
			one Grade 1 LSSM. Content exceeding the
			Grade 1 I SSM standards is clearly labeled
			The materials do not assess tonics before
			the grade in which they are introduced
			For example Module 4 Lesson 14 is
			labeled optional and the Alignment Guide
			provides additional guidance to modify
			Lossons 1E and 16 in order to align with
			LESSONS 15 and 10 in order to align with
			LSSIVI 1.IVID.D.S. THE Alighthetic Guide also
			Figure C and D Lassans 10, 10 with
			5, TOPICS C and D, Lessons 10 - 10 with
			relating addition and subtraction fluency
			with counting pennies and nickels and
			telling time with dimes and quarters. The
			materials also indicate content within a
			lesson that extends beyond the work of
			the grade level in the Differentiation:
			Challenge margin notes which invite
			students to work with problem types they
			wouldn't typically encounter until Grade 2.
Non-negotiable	Required	Yes	Materials connect supporting content to
2. CONSISTENT, COHERENT	2a) Materials connect supporting content to major		major content in meaningful ways so that
CONTENT	content in meaningful ways so that focus and coherence		focus and coherence are enhanced
Each course's instructional	are enhanced throughout the year.		throughout the year. In Module 1, Lesson
materials are coherent and			1, students explore ways of organizing by
consistent with the content in the			counting and comparing bears, cubes, and
Standards.			Unifix Cubes (LSSM 1.NBT.B.3). Lessons 2-
			6 reinforce this concept as students count,
			organize, represent, and compare data
			with two to three categories, connecting
			supporting LSSM 1.MD.C.4 to major LSSM
			1.NBT.B.3. For example, in Lesson 6,
			students answer the key question "How
			do tally marks make counting and

		comparing easier?" Students collect data
		from a video and represent it pictorially
		with tally marks and then count and
		compare the totals. In Lessons 7-9.
		students develop strategies to find the
		total of two or three addends, compare
		categories by using symbols, and
		determine how many more are in one
		category than in another (LSSM 1.NBT.B.3,
		1.MD.C.4, 1.OA.C.6). Students extend this
		learning in Module 2, Lessons 1-9 as they
		explore addition and subtraction
		relationships focusing on LSSM 1.OA.A.1,
		1.OA.C.5, and 1.OA.C.6. Then, in Lesson
		23, students compare categories in a
		graph to figure out how many more,
		connecting supporting LSSM 4.MD.C.4 to
		major LSSM 1.OA.A.1. In Module 4,
		Lessons 15 and 16, students compare sets
		of like coins and find the total value of a
		collection of coins within fifty cents,
		applying concepts of counting, comparing,
		and adding connecting LSSM 1.MD.C.5 to
		major Operations and Algebraic Thinking
		(OA) and Number and Operations in Base
		Ten (NBT) concepts.
Required	Yes	Materials include problems and activities
2b) Materials include problems and activities that serve		that connect two or more clusters in a
to connect two or more clusters in a domain , or two or		domain and/or two or more domains in
more domains in a grade/course , in cases where these		the grade level where these connections
connections are natural and important.		are natural and important. For example,
		Module 3, Topic A connects Cluster A
		(Represent and solve problems involving
		addition and subtraction) and B
		(Understand and apply properties of
		operations and the relationship between
		addition and subtraction) of the

			Operations and Algebraic Thinking (OA)
			domain. In this topic, students use the
			commutative and associative properties
			(LSSM 1.OA.B.3) to order and group parts
			efficiently to make 10 when solving three-
			addend word problems (LSSM 1.OA.A.1).
			Module 4, Lesson 10 connects the
			Measurement and Data (MD), Numbers
			and Operations in Base Ten (NBT), and
			Operations and Algebraic Thinking (OA)
			domains. In the lesson, students measure
			lengths (LSSM 1.MD.A.2) using 10-
			centimeter sticks and 1-centimeter sticks
			representing tens and ones (LSSM
			1.NBT.B.2) to solve addition and
			subtraction problems when comparing
			lengths (LSSM 1.OA.A.1). Problems and
			activities also connect domains in
			meaningful ways. For example, the
			concept of equality (LSSM 1.OA.D.7) is
			carefully woven into each module. Module
			5, Lesson 23 connects the Operations and
			Algebraic Thinking (OA) and Number and
			Operations in Base Ten (NBT) domains.
			During the lesson, students decompose
			two-digit numbers into tens and ones and
			then strategically add the tens first (LSSM
			1.NBT.C.4), such as 28 + 12. Students
			determine that 28 + 12 is equal to 28 + 10
			+ 2 because they both equal 40 (LSSM
			1.OA.D.7).
Non-negotiable	Required	Yes	Materials develop conceptual
3. RIGOR AND BALANCE:	3a) Attention to Conceptual Understanding: Materials		understanding of key mathematical
Each grade's instructional materials	develop conceptual understanding of key mathematical		concepts, especially where called for
reflect the balances in the	concepts, especially where called for explicitly in specific		explicitly in the standards.
Standards and help students meet	content standards or cluster headings by featuring high-		Throughout each of the modules, the
the Standards' rigorous	quality conceptual problems and discussion questions.		materials provide activities and discussion

expectations, by helping students	prompts to build conceptual
develop conceptual understanding,	understanding. At the end of the lessons,
procedural skill and fluency, and	students demonstrate an understanding
application.	of the concepts presented in the lesson.
	The materials align with the rigor
	expectations specified in the standards.
	Students develop the concepts through a
	combination of concrete, pictorial, and
	abstract experiences over time.
	Throughout the materials, students use
	visual models, multiple representations,
	and manipulatives to build conceptual
	understanding. For instance, students
	develop conceptual understanding of
	place value over the course of the
	materials (LSSM 1.NBT.B.2). Module 1 lays
	the foundation for later bundling 10 ones
	to make a unit of ten by having students
	count on from 10 to find teen totals. In
	Module 5, Topic A, Lesson 3, students
	develop conceptual understanding as they
	determine the values represented by the
	digits of a two-digit number (LSSM
	1.NBT.B.2). In the Launch section of the
	lesson, students watch a video of a baker
	boxing doughnuts into groups of 10 to
	provide a groupable pictorial model to
	support conceptual understanding of
	place value. Students notice how the
	baker groups the doughnuts into boxes of
	10 and tell how many full boxes the baker
	can make (LSSM 1.NBT.B.2c). During the
	Learn section, students refer back to the
	number of doughnuts the baker has at the
	beginning of the video, including 1 box of
	10 with 43 individual doughnuts to be
	boxed. This is recorded as 1 ten and 43

	ones. Students look at the image at the	
	end of the video which shows 5 full boxes	
	and 3 individual doughnuts. Students	
	identify the number of full boxes as 5 tens	
	and individual doughnuts as 3 ones and	
	the total number of doughnuts as 53. The	
	activity provides conceptual place value	
	understanding by demonstrating that two-	
	digit numbers can be expressed as tens	
	and ones. The lesson extends this	
	understanding to the concept that	
	numbers, such as 53, can be represented	
	as a different number of tens and ones,	
	such as 1 ten and 43 ones or 5 tens and 3	
	ones. In Module 4, Lesson 4, students	
	measure the length of an object and write	
	the length as a whole number of	
	centimeters (LSSM 1.MD.A.2). During the	
	Build and Compare: Length and Height	
	activity, students form pairs to compare	
	lengths or heights of centimeter cubes	
	(LSSM 1.NBT.B.3). Students use the	
	sentence frames " cubes is taller	
	than/shorter than/the same height as	
	cubes" and " is greater than/less	
	than/equal to" with the	
	corresponding symbol. When students roll	
	the die, they compare their number of	
	centimeter cubes first horizontally and	
	then a stacked vertical height. Students	
	use the sentence frame to compare their	
	cubes to their partner's cubes. During the	
	Learn section of the lesson, students use	
	conceptual understanding to identify	
	behaviors that lead to accurate	
	measurements such as laying units end to	
	end with no gaps (LSSM 1.MD.A.2).	
		Students count chorally the number of
---	-----	--
		centimeter cubes stacked accurately to
		measure the height of an owl. Students
		notice the measurement behaviors used
		to accurately measure the owl's height,
		including no gaps or overlaps and the
		cubes are end to end in a straight line.
		Students use kinesthetic movements to
		show the vertical height and horizontal
		length and develop an understanding of
		the definitions of "height" and "length"
		based on their movements to help build
		conceptual understanding. Next, students
		apply accurate measurement behavior to
		find the lengths of various classroom
		items, such as markers, glue sticks, paper
		clips, and pencils (LSSM 1.MD.A.2).
		Students measure each item with
		centimeter cubes and record their findings
		on their Measuring Recording page in their
		workbook. Students compare their
		measurements with their partners'
		measurements and measure again if they
		have different measurements.
Required	Yes	Materials are designed so that students
3b) Attention to Procedural Skill and Fluency: The		attain the fluencies and procedural skills
materials are designed so that students attain the		required by the standards. Each lesson
fluencies and procedural skills required by the content		begins with fluency practice to support a
standards. Materials give attention throughout the year		progression of learning over time
to individual standards that set an expectation of		throughout the course. Students have
procedural skill and fluency. In grades K-6, materials		opportunities to develop procedural skills
provide repeated practice toward attainment of fluency		aligned with the standards in the
standards. In higher grades, sufficient practice with		materials. Fluency routines are developed
algebraic operations is provided in order for students to		over time to support students in counting
have the foundation for later work in algebra.		and calculating as they are used
		consistently across lessons and include
		activities such as choral response,

	Whiteboard Exchange, and Sprint. The
	implementation guide provides guiding
	questions and suggestions for fluency
	implementation. Additionally, fluency is
	expected as an end-of-the-year
	performance expectation but can be
	achieved at various points throughout the
	year. Students are expected to fluently
	add and subtract within 10 (LSSM
	1.OA.C.6) by the end of the grade. In
	Module 2, Topic A, Lessons 2 and 3 guide
	students to fluently subtract all, 0, 1, and 1
	less than the total from any number
	within 20. Topic B, Lesson 7 helps students
	become fluent with subtracting within 10
	by using finger work. Later in Topic D,
	Lessons 17-19, after students develop an
	understanding of the relationship
	between addition and subtraction as they
	use related addition facts to subtract
	fluently within 10. Module 5 builds
	strategies for addition within 50 (LSSM
	1.NBT.C.4). In Module 5, Topic C, students
	use concrete and pictorial models to
	combine a one-digit addend and a two-
	digit addend by making the next 10. In
	Topic D, students add multiples of 10 to
	any number. In Module 6, students
	engage in Happy Counting to practice
	counting up to 120 (LSSM 1.NBT.A.1). In
	Module 2, Topic D, Lesson 16, students
	apply procedures to accurately, efficiently,
	and flexibly subtract within 20 by using
	strategies such as counting on or back
	(LSSM 1.OA.C.6). During the Launch
	section of the lesson, students identify
	counting on or back as strategies to solve

		the following problem: "There are 13
		chickens total. Four chickens are in the
		grass. The rest are in the chicken coop.
		How many chickens are in the coop?" The
		students identify that counting back is
		more efficient because there are only 4
		chickens to count back the total. During
		the Learn sections, students determine
		the efficiency of each counting on or
		counting back by relating the known part
		to the given whole. Students use their
		fingers, number lines, and total-part-part
		frames to subtract differences. In Module
		4, Topic D, Lesson 15, students count a set
		of like coins having a value of up to 50
		cents (LSSM 1.MD.D.5). During the Launch
		section of the lesson, students sort and
		identify the values of a penny, nickel, and
		dime. Within the context of sorting and
		counting coins, the materials provide the
		definitions of coins and cents. Students
		identify that the value of pennies can be
		determined by counting by ones, dimes by
		counting by tens, and nickels by counting
		by fives or knowing that two nickels have a
		value of 10. Students identify the value of
		a quarter. When completing the problem
		set and exit slip, students determine the
		value of a given group of coins in isolation.
Required	Yes	Materials are designed so that students
3c) Attention to Applications: Materials are designed so		spend sufficient time working with
that teachers and students spend sufficient time		engaging applications. The materials
working with engaging applications, including ample		provide engaging applications with
practice with single-step and multi-step contextual		frequent practice of single and multi-step
problems, including non-routine problems, that develop		problems. The progression of the modules
the mathematics of the grade/course, afford		includes opportunities within the lessons
opportunities for practice, and engage students in		to apply conceptual understanding and

problem solving. The problems attend theroughly to	procedural skills within the context of real-
these places in the content standards where	world problems. Students answer
chose places in the content standards where	austions in poirs, small groups, and
expectations for multi-step and real-world problems are	questions in pairs, small groups, and
explicit.	whole groups where they justify and
	explain their reasoning. Lessons include
	explicit instruction for solving word
	problems and student-led problem-solving
	opportunities. In Module 1, Lesson 2,
	students solve engaging application
	problems by counting and comparing
	data. Students generate data by choosing
	whether they rather listen to music or
	stories. Students create a number path
	with counting cubes for each of the
	categories they selected. The number
	paths are lined up with labels to create a
	graph with a title (LSSM 1.MD.C.4). In
	Lesson 3, students sort and represent data
	into three categories. Students use
	comparison symbols and sentence frames
	to compare the red, blue, and yellow
	cubes as shown in a graph. In the Debrief
	section, students complete a think-pair-
	share answering "What we can learn from
	a graph?" and respond with comparisons
	of the different colored apples on the
	graph. In Lesson 6, students represent the
	data of three categories with tally marks.
	Students use physical craft sticks to create
	tally marks to represent data. Students
	use the tally mark to write comparison
	statements about given data. In Module 2.
	Topic B. Lesson 6. students represent and
	solve related addition and subtraction
	result unknown part problems (LSSM
	1.0A.A.1). Students use the Read. Write
	Draw process (RDW) to solve story

		problems. Students solve the following word problem, "9 bugs are on a leaf. 3 bugs fly off the leaf. How many bugs are on the leaf now?" The real-world story problems allow students to apply their subtraction knowledge by drawing bugs on a leaf using total-part-part relationships. Students find the unknown part in a given problem using addition or subtraction and number bonds. Students apply the mathematics they know to solve real-world problems in lessons throughout the materials
Required 3d) Balance: The three aspects of rigor are not always treated together and are not always treated separately.	Yes	It is evident in the materials that the three aspects of rigor are not always treated together and are not always treated separately. The materials reflect the balance of rigor in the standards. The Grade 1 LSSM focus heavily on conceptual understanding, and the structure of the materials help students develop the foundational concepts and skills necessary to build and apply math knowledge. Procedural skills and fluency appear in each lesson in the opening fluency activity. The Fluency component enables students to develop fluency with skills from all clusters. The Launch and Learn components engage students in both conceptual understanding and procedural skill and fluency. The Problem Set and Exit Ticket offer students the opportunity to independently apply their procedural skill and fluency, show their conceptual understanding, and solve applications such as word problems. In Land, students often engage in a discussion about their

	(conceptual understanding of the student
	١	work. Specific lessons focus on the
	ä	application standards, LSSM 1.OA.A.1,
		1.OA.A.2, and 1.MD.C.4, and application
	S	skills are interwoven throughout the
	1	materials in other modules. In Module 3,
	-	Topic D, Lesson 19, students apply
	ć	addition and subtraction skills to solve
	t i i i i i i i i i i i i i i i i i i i	problems within 20 and use conceptual
	L L L L L L L L L L L L L L L L L L L	understanding to represent two-digit
	ı	numbers within 50 as tens and ones (LSSM
		1.OA.A.1, 1.NBT.B.2, 1.NBT.B.2b,
	-	1.NBT.B.2c). Students use the RDW
	1	process and number bonds to solve
	1	problems, with the change unknown, such
	ä	as "Kit has 16 rocks. She takes some to
	9	school. There are 12 rocks at home. How
	1	many rocks did Kit take to school?" In
	1	Module 2, Topic C, Lesson 12, students
	ı	use conceptual skills to solve application
	9	subtraction story problems while
	1	practicing procedural skills (LSSM
	-	1.0A.A.1, LSSM 1.0A.C.5, LSSM 1.0A.C.6).
		The aspects of rigor are treated together
	١	when students count back to determine
	t	the value of an unknown part in an
	e	equation. Module 5, Topic D, Lesson 16
	ł	provides an example of how the three
	á	aspects of rigor are addressed and
	ł	balanced. The objective is to use single-
	(digit facts to add and subtract multiples of
		10 (LSSM 1.NBT.C.4, 1.NBT.C.6). In the
	l	Launch, students use their fingers as
	0	concrete models of a unit of 10. They
	(combine their hands in pairs and small
	Į	groups to develop their conceptual
	l	understanding of how using units of ten (2

			tens + 2 tens = 4 tens) can help them add
			multiples of ten (20 + 20 = 40).
			Throughout the materials, the lessons
			treat the aspects of rigor together when
			appropriate and separate when needed.
Non-negotiable	Required	Yes	Materials attend to the full meaning of
4. FOCUS AND COHERENCE VIA	4a) Materials attend to the full meaning of the practice		each practice standard. Each practice
PRACTICE STANDARDS:	standards. Each practice standard is connected to		standard is connected to grade-level
Aligned materials make meaningful	grade/course-level content in a meaningful way and is		content and is meaningfully present
and purposeful connections that	present throughout the year in assignments, activities,		throughout the materials. The materials
promote focus and coherence by	and/or problems.		support students' habits of mind based on
connecting practice standards with			the mathematical practices while also
content that is emphasized in the			building conceptual understanding,
Standards. Materials address the			developing fluency, and applying
practice standards in a way to			understanding. Margin notes in the
enrich and strengthen the focus of			teacher materials provide cues and
the content standards instead of			connections to the work of the students
detracting from them.			and the Standards for Mathematical
			Practice. Each lesson in the modules has a
Yes No			section titled, "Promoting the Standards
			for Mathematical Practice," which
			identifies the mathematical practice
			standards present in the lesson. This
			section also provides context of where
			Grade 1 students should be in the
			progression of the mathematical practices.
			For example, in Module 1, Topic A, Lesson
			5, students make sense of problems and
			persevere in solving them (MP.1) as they
			select a collection of objects, make a plan
			about how to organize and count them,
			carry out the plan, adjust the plan as
			needed, and arrive at an accurate total
			(LSSM 1.MD.C.4). In Module 5, Lesson 19,
			students look for and express regularity in
			repeated reasoning (MP.8) when they
			notice that adding multiples of ten to a

		two-digit number causes the digit in the tens place to change while the digit in the ones place remains the same (LSSM 1.NBT.C.4). By recognizing this pattern, students add more efficiently. The first half of Module 6 focuses on the attributes of shapes (LSSM 1.G.A.1, 1.G.A.2). In Module 6, Lesson 5, Which One?, students attend to precision (MP.6) as they justify their choice for answering "Which one do you want to blow in a race?" by naming the attributes of shapes. In Lesson 12, Partitioning Shapes, students construct viable arguments and critique the reasoning of others (MP.3) while working with a partner. One student writes lines on their personal whiteboard to represent either "a half" or "not a half" of a shape. The other partner identifies if the line represents half of the shape or not and explains their thinking.
Required 4b) Materials provide sufficient opportunities for students to construct viable arguments and critique the arguments of others concerning key grade/course-level mathematics that is detailed in the content standards (cf. MP.3). Materials engage students in problem solving as a form of argument, attending thoroughly to places in the standards that explicitly set expectations for multi- step problems.	Yes	Materials provide sufficient opportunities for students to construct viable arguments and critique the arguments of others concerning key grade-level mathematics that is detailed in the content standards. The lessons are structured with opportunities for students to engage in mathematical reasoning through discussion questions and prompts. The materials provide opportunities for students to form viable arguments and critique the arguments of others throughout the lessons. Lessons also include several routines designed to promote discourse. For example, students determine a misconception in sample

		work and then construct viable arguments
		to convince the teacher of the correct
		solution path or solution. The materials
		also provide opportunities for students to
		conduct error analyses. For example, in
		Module 2, Lesson 16, students count on
		and count back using fingers and number
		paths to subtract. They compare the
		efficiency of the strategies they used in
		various problems. In Module 4, Lesson 4,
		students complete the I Can Measure
		page in their student workbooks. Students
		notice measurement behaviors and ask
		questions such as "How are the cubes
		lined up?" and "Where do the cubes begin
		and end?" Students select if the markers
		were measured correctly or not with
		centimeter cubes. In Module 5, Lesson 5,
		students play Would You Rather with
		various scenarios, such as choosing
		between "3 boxes of 10 crayons or a pile
		of 20 crayons." Students construct a
		mathematical argument to support their
		choice in a discussion with a partner. In
		Module 6, Lesson 20, students complete a
		think-pair-share to discuss if they should
		draw a new part to the tape diagram or
		draw a line to partition the tape diagram.
		Students critique each other's plans and
		explain why. In Lesson 27, students use
		the Critique of a Flawed Response routine
		to engage in discussion about adding two-
		digit numbers.
Required	Yes	Materials explicitly attend to the
4c) Materials explicitly attend to the specialized		specialized language of mathematics. The
language of mathematics.		materials use and encourage the use of
		accurate mathematical terminology as

	appropriate for the grade level. The
	Terminology Resource identifies the
	specialized language of mathematics that
	is used throughout a module. The
	resource lists New and Familiar
	terminology with definitions and
	descriptions from the module. Items in the
	New category are discipline-specific words
	that are introduced to students within the
	module. These items include the
	definition, description, or illustration as it
	is presented to students. Language
	Support margin notes embedded in the
	lessons provide guidance to teachers as
	they support students with the specialized
	language of mathematics. Each Module
	Overview and Module Assessment
	Description addresses the proper
	terminology for students to use as well as
	definitions for key terms. The sample
	dialogue in each lesson includes the
	terminology teachers should expect from
	their students when they answer
	questions or share their thinking. For
	example, in Module 1, Lesson 4, students
	draw one picture in one square until the
	number path represents three butterflies.
	The teacher supports students in
	understanding the term, represent, by
	stating "represents, or shows, three
	butterflies." Students are then encouraged
	to use the term represent as they
	continue creating graphs. In Module 6,
	Lesson 1, students identify the prefix tri-
	as meaning three as they describe what a
	tricycle, triceratops, and triangle have in
	common. Students define quadrilaterals,

		pentagons, and hexagons. In Module 4, Lesson 1, students use the comparative terms of shorter, taller, shortest, and tallest to compare and order objects by length. The Language Support margin note explains that "long, longer, and longest refer to horizontal length while tall, taller, and tallest refer to vertical height." Students use visuals to understand the suffixes -er, used to compare two objects, and -est, used when comparing three or more objects. The routine, Which One Doesn't Belong? also promotes attention to the specialized language of mathematics. For example, the Which One Doesn't Belong? routine in Module 6, Topic D, Lesson 19 asks students to use precise language to compare and contrast four representations of 110.
4d) There are teacher-directed materials that explain the role of the practice standards in the classroom and in students' mathematical development.	Yes	Materials include teacher-directed materials that explain the role of the practice standards in the classroom and in students' mathematical development. The materials provide a full explanation of the purpose and intent of the practice standards with in-lesson connections and context for instruction. Each lesson contains a section entitled "Promoting the Standards for Mathematical Practice" that links a specific practice standard to the content of the lesson. The section provides the context of the progression of the standard in the current grade level and in future learning. It provides a specific reference of the lesson activity that implements the practice standard. At the conclusion of each Module, when

	reviewing achievement descriptors and
	standards, mathematical practice
	standards are listed for each module.
	Within the Implementation Guide, the
	mathematical practices are explained and
	highlighted in the margin notes as they
	appear in specific lessons. Additionally, in
	the Implementation Guide, the grade level
	standards and practice standards are
	listed for educators as they are presented
	in all modules. In the section highlighting
	Lesson Facilitation, the guide describes
	effective delivery as "delivery that fosters
	student ownership and belonging. This
	curriculum supports this aspect by
	naturally presenting opportunities for
	students to practice the mathematical
	practice standards as they arise within the
	lessons." In Module 1, Lesson 10, students
	recognize 5 as a part within a total shown
	on a graph and with tally charts. Students
	demonstrate looking for and making use
	of structure when they find 5 within a set
	and use it as a part to count on (MP.7).
	The Promoting the Standards for
	Mathematical Practice margin notes
	provide the following questions to
	promote MP.7: "Why is it helpful to look
	for 5 in a set?" "Where do you see groups
	of 5?" "How do those groups help?" and
	"How can counting on from 5 help you to
	solve this problem?" In Module 3, Lesson
	25, after students have developed
	strategies to subtract within 20, the
	margin note highlights how students use
	appropriate tools strategically (MP.5). It
	explains why students are encouraged to

		take time to look carefully at problems before solving them. It emphasizes that students should analyze the problems to strategically choose both physical tools (cubes, number paths, etc.) and
		mathematical tools (strategies).
Section II: Additional Alignment (Literia and indicators of Superior Quality	
5. ALIGNMENT CRITERIA FOR	Required	See EdReports for more information.
STANDARDS FOR MATHEMATICAL	5a) Materials provide all students extensive work with	
CONTENT: Materials fester focus and	grade/course-level problems.	
soboronce by linking tonics (across	Required	
domains and clusters) and across	5b) Materials relate grade/course-level concepts	
grades/courses by staving	explicitly to prior knowledge from earlier grades and	
consistent with the progressions in	courses. The materials are designed so that prior	
the Standards.	knowledge is extended to accommodate the new	
	grade/course-level work Lessons are appropriately	
	structured and scaffolded to support student mastery	
	Required	
	5c) There is variety in what students produce. For	
	example, students are asked to produce answers and	
	solutions, but also, in a grade/course-appropriate way,	
	arguments and explanations, diagrams, mathematical	
	models, etc.	
	5d) Support for English Language Learners and other	
	special populations is provided. The language in which	
	problems are posed is not an obstacle to understanding	
	the content, and if it is, additional supports (suggestions	
	for modifications, "vocabulary to preview", etc.,) are	
	included.	
6. QUALITY OF ASSESSMENTS:	Required	
Materials offer assessment	6a) Multiple assessment opportunities are embedded	
opportunities that genuinely	into content materials and measure student mastery of	
measure progress and elicit direct,	standards that reflect the balance of the standards as	
observable evidence of the degree	presented in materials.	
to which students can	Required	

7d) Materials identify prerequisite skills and concepts	Yes	Materials identify prerequisite skills and
for the major work of the grade/course, connected to		concepts for the major work of the grade.
the current on-grade/course-level work.		In the Module Overview, margin notes
		titled, "Before This Module," provide
		prerequisite skills from previous grades or
		earlier in the current grade students need
		to be successful. For an additional
		purchase, Equip Pre-Module Assessments
		are provided for each module that assist in
		identifying students who need work on
		prerequisite skills and concepts. Each item
		on the Pre-Module Assessment is
		connected to a prerequisite standard and
		includes a supporting activity that
		readdresses the content of the item. The
		Equip reports help identify student-
		specific needs and provide data in three
		different ways including performance by
		item, performance by student, and trends
		about overall class performance. For
		example, the Equip Module 1: Counting,
		Comparison, and Addition Overview
		identifies essential foundational
		knowledge needed to access the content
		within Module 1 such as, "Count to 10."
		"Say one number name with each object
		when counting up to 10 objects."
		"Recognize that each successive number is
		one more when counting within 10." and
		"Use the last number of a count to tell
		how many regardless of arrangement or
		order counted." In Module 4, students
		compare length measurements. In the
		Before This Module section, the materials
		state that students identified height and
		length as measurable attributes in Grade
		K. The section also references Grade 1,

		Module 2 where students solve
		comparison with difference word
		problems, and Module 3 where students
		prepare for measuring lengths with 10-
		centimeter sticks and cubes. In Module 6,
		the materials focus on using place value
		concepts to compare, add, and subtract.
		The Before This Module refers to Grade K,
		Module 6 where students develop place
		value understanding when "they come to
		see that teen numbers are composed of
		10 ones and some more ones." In
		addition, the Equip Essential Foundational
		Knowledge guide identifies the
		Achievement Descriptors from prior grade
		levels or lessons that are assessed on the
		Pre-Assessments.
7e) Materials provide guidance to help teachers identify	Yes	Materials provide guidance to help
students who need prerequisite work to engage		teachers identify students who need
successfully in core instruction, on-grade/course-level		prerequisite work to engage successfully
work.		in core instruction. The Implementation
		Guide references that Pre-Module
		assessments are available with Eureka
		Math Squared Equip to identify and
		support students' unfinished learning. The
		Pre-Assessments "focus on assessing
		foundational knowledge essential to the
		content of the upcoming lesson." The Pre-
		Module Assessment reports provide data
		to identify student-specific needs. The
		goal of the pre-assessment is to clearly
		identify which students need to engage in
		supporting content before, or during,
		grade-level instruction for each module.
7f) Materials provide targeted, aligned, prerequisite	Yes	Materials provide targeted, aligned,
work for the major work of the grade/course, directly		prerequisite work for the major work of
		the grade directly connected to specific

connected to specific lessons and units in the curriculum.	lessons and units in the curriculum. The materials include four Pre-Module
	Assessments that target foundational,
	prerequisite knowledge for the upcoming
	modules. The Pre-Module Assessment
	results used along with the Equip User
	Guide provide specific activities to provide
	timely remediation for the current
	module. Teachers are guided to analyze
	the results after a pre-assessment is
	administered. Each item in the Pre-
	Assessment corresponds to at least one
	Supporting Activity that can be used to
	meet the needs of students who require
	prerequisite work. The Equip User Guide
	provides information for the Supporting
	Activity that corresponds to each item in
	the Pre-Module Assessment, such as
	explanations of why the knowledge is
	foundational to the module, when
	specifically in the module the knowledge
	will be needed, and where in the module
	there is lesson-embedded practice with
	the foundational knowledge. For example,
	for Module 1, Item 2 of the Pre-
	Assessment, the Equip guide references
	lessons that address the foundational
	content such as Grade K, Module 4, Lesson
	11, and Grade K, Module 5, Lessons 1-7. In
	addition, a Supporting Activity is provided
	that aligns with the foundation content for
	the Pre-Assessment item.
7g) Materials provide clear guidance and support for	See EdReports for more information.
teachers about the structures that allow students to	
appropriately address unfinished learning using	
prerequisite work.	

FINAL EVALUATION

Tier 1 ratings receive a "Yes" for all Non-negotiable Criteria and a "Yes" for each of the Additional Criteria of Superior Quality. *Tier 2 ratings* receive a "Yes" for all Non-negotiable Criteria, but at least one "No" for the Additional Criteria of Superior Quality. *Tier 3 ratings* receive a "No" for at least one of the Non-negotiable Criteria.

Compile the results for Sections I and II to make a final decision for the material under review.				
Section	Criteria	Yes/No	Final Justification/Comments	
I: Non-negotiable Criteria of Superior Quality ⁵	1. Focus on Major Work	Yes	Materials devote a large majority of time to the major work of the grade. Materials spend minimal time on content outside of the appropriate grade level. In assessment materials, assessment components do not make students/teachers responsible for any topics before the grade in which they are introduced.	
	2. Consistent, Coherent Content	Yes	Materials connect supporting content to major content in meaningful ways so that focus and coherence are enhanced throughout the year. Materials include problems and activities that connect two or more clusters in a domain and/or two or more domains in the grade level where these connections are natural and important.	
	3. Rigor and Balance	Yes	Materials develop conceptual understanding of key mathematical concepts, especially where called for explicitly in the standards. Materials are designed so that students attain the fluencies and procedural skills required by the standards. Materials are designed so that students spend sufficient time working with engaging applications. It is evident in the materials that the three aspects of rigor are not always treated	

⁵ Must score a "Yes" for all Non-negotiable Criteria to receive a Tier 1 or Tier 2 rating.

			together and are not always treated
	4. Focus and Coherence via Practice Standards	Yes	Materials attend to the full meaning of each practice standard. Each practice standard is connected to grade-level content and is meaningfully present throughout the materials. Materials provide sufficient opportunities for students to construct viable arguments and critique the arguments of others concerning key grade-level mathematics that is detailed in the content standards. Materials explicitly attend to the specialized language of mathematics. Materials include teacher-directed materials that explain the role of the practice standards in the classroom and in students' mathematical development.
	5. Alignment Criteria for Standards for Mathematical Content		See EdReports for more information.
	6. Quality of Assessments		See EdReports for more information.
II: Additional Alignment Criteria and Indicators of Superior Quality ⁶	7. Additional Indicators of Quality		Materials identify prerequisite skills and concepts for the major work of the grade when applicable. Materials provide guidance to help teachers identify students who need prerequisite work to engage successfully in core instruction. Materials provide targeted, aligned, prerequisite work for the major work of the grade directly connected to specific lessons and units in the curriculum.
FINAL DECISION FOR THIS MATERIAL: Tier 1, Exemplifies quality			

⁶ Must score a "Yes" for all Additional Criteria of Superior Quality to receive a Tier 1 rating.





Qualified for Abbreviated Review¹

FOCUS COHERENCE Focus strongly where the standards focus. COHERENCE Focus strongly where the standards focus strongly where the standards focus strongly where the standards focus strongly st

Title: Eureka Math²

Grade/Course: <u>2</u> Copyright: <u>2021</u>

Publisher: Great Minds PBC

Overall Rating: Tier 1, Exemplifies quality

Tier 1, Tier 2, Tier 3 Elements of this review:

Strong mathematics instruction contains the following elements:

STRONG	WEAK
1. Focus on Major Work (Non-negotiable)	
2. Consistent, Coherent Content (Non-negotiable)	
3. Rigor and Balance (Non-negotiable)	
4. Focus and Coherence via Practice Standards	
(Non-negotiable)	
5. Alignment Criteria for Standards for	
Mathematical Content	
6. Quality of Assessments	
7. Indicators of Quality	

¹ Abbreviated Reviews are conducted in K-12 ELA and K-12 Math for submissions that **Meet Expectations** for Gateways 1 and Gateway 2 through EdReports. Reviewers considered these reports as they reviewed materials for alignment to Louisiana state standards and quality Non-negotiable indicators. See the full EdReports review at <u>https://www.edreports.org/reports/overview/eureka-math2-2021</u>.





To evaluate instructional materials for alignment with the standards and determine tiered rating, begin with **Section I: Non-negotiable Criteria**.

- Review the **required**² Indicators of Superior Quality for each **Non-negotiable** criterion.
- If there is a "Yes" for all **required** Indicators of Superior Quality, materials receive a "Yes" for that **Non-negotiable** Criterion.
- If there is a "No" for any of the **required** Indicators of Superior Quality, materials receive a "No" for that **Non-negotiable** Criterion.
- Materials must meet **Non-negotiable** Criterion 1 and 2 for the review to continue to **Non-negotiable** Criteria 3 and 4. Materials must meet all of the **Non-negotiable** Criteria 1-4 in order for the review to continue to Section II.
- If materials receive a "No" for any **Non-negotiable** Criterion, a rating of Tier 3 is assigned, and the review does not continue.

If all Non-negotiable Criteria are met, then continue to Section II: Additional Criteria of Superior Quality.

- Review the **required** Indicators of Superior Quality for each criterion.
- If there is a "Yes" for all **required** Indicators of Superior Quality, then the materials receive a "Yes" for the additional criteria.
- If there is a "No" for any **required** Indicator of Superior Quality, then the materials receive a "No" for the additional criteria.

Tier 1 ratings receive a "Yes" for all Non-negotiable Criteria and a "Yes" for each of the Additional Criteria of Superior Quality.

Tier 2 ratings receive a "Yes" for all Non-negotiable Criteria, but at least one "No" for the Additional Criteria of Superior Quality.

Tier 3 ratings receive a "No" for at least one of the Non-negotiable Criteria.

² **Required Indicators of Superior Quality** are labeled "**Required**" and shaded yellow. Remaining indicators that are shaded white are included to provide additional information to aid in material selection and do not affect tiered rating.

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES		
Section I: Non-negotiable Criteria Non-negotiable Criteria 3 and 4. I	Section I: Non-negotiable Criteria of Superior Quality: Materials must meet Non-negotiable Criteria 1 and 2 for the review to continue to Non-negotiable Criteria 1-4 in order for the review to continue to Section II.				
Non-negotiable 1. FOCUS ON MAJOR WORK ³ : Students and teachers using the materials as designed devote the large majority ⁴ of time to the major work of the grade/course. Yes No	Required 1a) Materials devote the majority of class time to the major work of each grade/course.	Yes	Materials devote a large majority of time to the major work of the grade. Of the 138 lessons, 75% of instructional lessons are spent on major work of the grade. Specifically, 66% of lessons are spent on major standards, 9% of lessons are spent on a combination of major standards and supporting/additional standards, and 25% of lessons are spent on supporting or additional standards. Four of the lessons are labeled as optional.		
	Required 1b) Instructional materials, including assessments, spend minimal time on content outside of the appropriate grade/course during core math instruction. Content beyond grade/course-level should be clearly labeled as optional.	Yes	Materials spend minimal time on content outside of the appropriate grade level. In assessment materials, assessment components do not make students/teachers responsible for any topics before the grade in which they are introduced. The instructional lessons and assessments focus on Grade 2 Louisiana Student Standards for Mathematics (LSSM). The materials include lessons outside of the grade level but are labeled as foundational or optional. Foundational lessons build towards grade-level standards, and optional lessons provide extension opportunities. The content within these lessons are not included in the assessments. The lesson materials in Module 1, Topic B, Lesson 9 serve as a		

³ For more on the major work of the grade, see Focus by Grade Level. ⁴ The materials should devote at least 65% and up to approximately 85% of class time to the major work of the grade with Grades K–2 nearer the upper end of that range, i.e., 85%.

			formative assessment and foundational
			lesson to build the conceptual
			understanding that three-digit numbers
			represent a number of hundreds, tens,
			and ones (LSSM 2.NBT.A.1). Students
			relate metric measurements to other
			representations of the same amount with
			prompts, such as "Beth and Kate measure
			the same desk. Beth says the desk is 1m, 2
			cm. Kate says it is 102 cm. Who is
			correct?" In Module 1, Lesson 10, students
			reason about the relationship between
			the size of the unit and the number of
			units needed to measure. This lesson is a
			foundational lesson to support standard
			LSSM 2.MD.A.2. In Module 2, Lesson 27,
			students solve two-step word problems
			within 100. This is a foundational lesson to
			support standard LSSM 2.OA.A.1. The
			Achievement Descriptors in these lessons
			indicate foundational lessons. In Module
			3, Lesson 19, students solve elapsed time
			problems. This lesson is labeled optional
			for extension in the Contents and after the
			lesson title.
Non-negotiable	Required	Yes	Materials connect supporting content to
2. CONSISTENT, COHERENT	2a) Materials connect supporting content to major		major content in meaningful ways so that
CONTENT	content in meaningful ways so that focus and coherence		focus and coherence are enhanced
Each course's instructional	are enhanced throughout the year.		throughout the year. With the exception
materials are coherent and			of LSSM 2.MD.D.10, which is addressed in
consistent with the content in the			Module 1, Topic A, Major work is often
Standards.			developed prior to supporting content and
			is then reinforced or applied in lessons
Xes No			that address supporting standards. In
			Module 5, Topic A, students solve
			problems with bills and coins (LSSM
			2.MD.C.8) by applying place value

		strategies and properties of operations
		developed in earlier modules, reinforcing
		major work from the Operations and
		Algebraic Thinking (OA) and Number and
		Operations in Base Ten (NBT) domains. For
		example, in Module 5, Topic A, Lesson 3,
		students solve one- and two-step word
		problems to find the total value of a group
		of coins (LSSM 2.MD.C.8, LSSM 2.OA.1,
		LSSM 2.NBT.B.5, and LSSM 2.NBT.B.7).
		Students use and draw models and solve
		one- and two-step problems, such as "Sal
		has 2 quarters, 2 dimes, and 6 nickels. He
		buys a ball for 76 cents. How much money
		does he have left?" The supporting
		content of counting money (LSSM
		2.MD.C.8) is connected to the major
		fluency content of adding and subtracting
		within 100 (LSSM 2.NBT.B.5, and LSSM
		2.NBT.B.7) which was first developed in
		Modules 2 and 4. In Module 6, Topic A,
		Lesson 1, students compare equal groups
		and write repeated addition equations.
		During the Learn section of the lesson,
		students use tiles on a whiteboard to
		represent ways to create equal groups
		when given 20 cookies (supporting LSSM
		2.OA.C.4) and then write addition number
		sentences to match the whiteboard
		model, reinforcing major LSSM 2.OA.A.1
		which was developed in Module 2 and 5.
Required	Yes	Materials include problems and activities
2b) Materials include problems and activities that serve		that connect two or more clusters in a
to connect two or more clusters in a domain , or two or		domain and/or two or more domains in
more domains in a grade/course , in cases where these		the grade level where these connections
connections are natural and important.		are natural and important. For example,
		Module 6, Lesson 17 connects Cluster A



			(LSSM 2.OA.A.1, 2.NBT.A.2). In the Learn section of the lesson, students use strategies to count efficiently by ones, tens, and hundreds (LSSM 2.NBT.A.2) to find the missing amount (LSSM 2.OA.A.1), such as finding the difference between 90 and 340.
Non-negotiable 3. RIGOR AND BALANCE: Each grade's instructional materials reflect the balances in the Standards and help students meet the Standards' rigorous expectations, by helping students develop conceptual understanding, procedural skill and fluency, and application. Yes No	Required 3a) Attention to Conceptual Understanding: Materials develop conceptual understanding of key mathematical concepts, especially where called for explicitly in specific content standards or cluster headings by featuring high- quality conceptual problems and discussion questions.	Yes	Materials develop conceptual understanding of key mathematical concepts, especially where called for explicitly in the standards. Throughout each of the modules, the materials provide activities and discussion prompts to build conceptual understanding. At the end of the lessons, students demonstrate an understanding of the concepts presented in the lesson. The materials align with the rigor expectations specified in the standards. Students develop the concepts through a combination of concrete, pictorial, and abstract experiences over time. Throughout the materials, students use visual models, multiple representations, and manipulatives to build conceptual understanding. In Module 1, Topic D, Lessons 15-19, students work to develop conceptual understanding by using a measuring tape as a number line to add and subtract efficiently and represent and solve comparison problems by using measurement contexts (LSSM 2.MD.B.6). In Lessons 15 and 16, students use measuring tape and the number line to add and subtract by getting to the next benchmark number. Students begin Lesson 15 by adding 14 to 107, first finding

	:	107 on the number line and then
	4	discussing different ways to add 14, such
		as adding 10 to 107. The discussion leads
	1	to using benchmark numbers in the jumps.
	4	Students determine that 107 needs 3 to
	1	get to 110, 10 more lands at 120, and 1
		more jump lands on 121 as the total.
	4	Students have several opportunities to
		practice this skill. Lesson 16 transitions to
		subtraction using benchmark numbers.
	-	The material suggests the teacher choose
	1	specific students to share their work who
	:	show a variety of number line strategies.
	-	The questioning throughout these lessons
	l	is guided and specific to lead students
	1	through the discussion in a way that
	(deepens their conceptual understanding
		of the standard. The materials provide
	1	sample student responses. As Topic D
		progresses, students develop a deeper
		understanding by working comparison
		problems and then comparison word
		problems with differences unknown. In
		Module 3, Lesson 8, students create
		composite shapes by using equal parts and
	1	name them as halves, thirds, and fourths
		(LSSM 2.G.A.3). The lesson materials
		provide students with an opportunity to
	(demonstrate conceptual understanding of
		equal parts. During the Learn section,
	1	students use two same-sized triangles to
		make a polygon and show halves. Later in
	1	the lesson, students work with a partner
	1	to show that 4 fourths make 1 whole
		shape using triangles to model. The exit
		slip assesses students' knowledge of
		shapes with equal parts and what fraction

		of the whole shape the parts represent.
		Several lessons in Module 6 work to
		develop a deeper conceptual
		understanding of Operations and
		Algebraic Thinking (OA) standards (LSSM
		2.OA.C.3, 2.OA.C.4). In Lesson 5, students
		compose arrays with rows and columns
		and use a repeated count to find the total.
		The lesson begins with students exploring
		a ten tile array in different formations and
		breaking it into smaller parts. Then,
		students show 3 groups of 6 which make
		an equal array of 18 tiles. Each step builds
		a deeper understanding of arrays. In the
		Lesson 5 debrief, students answer "Is this
		an array?" and explain why. The discussion
		question becomes more open-ended for
		the students in Lesson 11 when they
		answer, "How does decomposing an array
		help us find the total?" and "How does
		decomposing an array relate to our place
		value work with numbers?" The building
		of these lessons help students develop a
		deeper conceptual understanding of these
		standards.
Required	Yes	Materials are designed so that students
3b) Attention to Procedural Skill and Fluency: The		attain the fluencies and procedural skills
materials are designed so that students attain the		required by the standards. Each lesson
fluencies and procedural skills required by the content		begins with fluency practice to support a
standards. Materials give attention throughout the year		progression of learning over time
to individual standards that set an expectation of		throughout the course. Students have
procedural skill and fluency. In grades K-6, materials		opportunities to develop procedural skills
provide repeated practice toward attainment of fluency		aligned with the standards in the
standards. In higher grades, sufficient practice with		materials. Fluency routines are developed
algebraic operations is provided in order for students to		over time to support students in counting
have the foundation for later work in algebra.		and calculating as they are used
		consistently across lessons and include

	activities such as choral response,
	Whiteboard Exchange, and Sprint. The
	implementation guide provides guiding
	questions and suggestions for fluency
	implementation. Additionally, fluency is
	expected as an end-of-the-year
	performance expectation but can be
	achieved at various points throughout the
	year. In Module 4, Topic D, lesson 16,
	students practice subtraction as a
	procedural skill by using concrete models
	and relate them to written recordings
	(LSSM 2.OA.B.2 and LSSM 2.NBT.B.7).
	During the Learn section of the lesson,
	students use number bonds to show the
	part-total relationship and number disks in
	the hundreds, tens, and ones columns to
	represent the total. Students make
	exchanges for each unit to subtract and
	record their work in vertical form.
	Students practice the procedural skill of
	subtraction while using the fluency skill of
	subtracting within 20 for each place on the
	chart. In Module 5, Topic B, Lesson 10,
	students measure an object twice using
	two different length units and then
	compare and relate measurement to the
	unit size (LSSM 2.MD.A.2). In the Learn
	section of the lesson, students measure
	objects, such as unsharpened pencils,
	using both centimeters and inches.
	Students discuss the difference between
	the number of inches and centimeters as
	it relates to the relative size of a unit.
	During the Units of Measure Race,
	students use a centimeter cube, one-inch
	tile, ruler, and yardstick to measure the

		classroom rug. Students discuss which unit is the most efficient for measuring the rug. Modules 4 and 5 build on a student's ability to "fluently add or subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction" (LSSM 2.NBT.B.5). In both modules, students learn different strategies to build their fluency. In Module 4, Lesson 5, fluency activities include Number Line Hop: Use compensation to Add Within 100 and White Board Exchange: Make the Next Ten to Add Within 100. The Learn portion of the lesson begins with Add to Make a Ten or Make a Hundred. Lesson 6 includes the same fluency activities as Lesson 5 with the practice increasing to 200. The Learn portion of the lesson works with more strategies such as Relate the Arrow Way and Onen Number Line Rocordings. In
		Lessons 12, 13, 20, 22, and 23, students
Required	Ves	Materials are designed so that students
Required 3c) <i>Attention to Applications:</i> Materials are designed so that teachers and students spend sufficient time working with engaging applications , including ample practice with single-step and multi-step contextual problems, including non-routine problems, that develop the mathematics of the grade/course, afford opportunities for practice, and engage students in problem solving. The problems attend thoroughly to those places in the content standards where expectations for multi-step and real-world problems are explicit.	Yes	Materials are designed so that students spend sufficient time working with engaging applications. The materials provide engaging applications with frequent practice of single and multi-step problems. The progression of the modules includes opportunities within the lessons to apply conceptual understanding and procedural skills within the context of real- world problems. Students answer questions in pairs, small groups, and whole groups where they justify and explain their reasoning. Lessons include

explicit instruction for solving word problems and student-led problem-solving opportunities.

In Module 1, Topic A, lesson 4, students use the information presented in a bar graph to solve compare problems (LSSM 2.MD.D.10). In the Learn section, students use information from a table to make a bar graph that compares the number of animals on a farm. They use colored tiles to represent each animal. Students compare the number of cows to pigs by discussing questions such as "Are there more pigs than cows?" or "How many more pigs than cows are there?" Students generate their own comparison questions using the graph. Students work in pairs asking each other questions then solve using strategies and explain their thinking. In Module 5, Lesson 4, students solve the following problem: "Jade buys seafood at the market. She pays with four ten-dollar bills, five one-dollar bills, and three fivedollar bills. How much does the seafood cost?" In this real-world problem, students solve by applying their knowledge of dollar amounts and addition strategies. 10 + 10 + 10 + 10 + 1 + 1 + 1 + 1 + 1 + 5 + 5 + 5 = \$40+ \$5 + \$15 = \$60. Students then explain the strategy they used to solve. The next problem states, "Ling buys a toy train for \$37. Before he buys the train, Ling has 2 twenty-dollar bills, 3 one-dollar bills, 3 five-dollar bills, and 6 ten-dollar bills. How much money does Ling have left after he buys the toy train?" This two-step realworld problem provides the opportunity



		reverse operation within the following
		nrohlem: "Sal has 5 hoves of games Each
		how includes 2 games. How many games
		box includes 5 games. How many games
		does sal have in all? The students
		reasoning comes from their choice of
		strategy to solve.
Required	Yes	It is evident in the materials that the three
3d) <i>Balance:</i> The three aspects of rigor are not always		aspects of rigor are not always treated
treated together and are not always treated separately.		together and are not always treated
		separately. The materials reflect the
		balance of rigor in the standards.
		Procedural skills and fluency appear in
		each lesson in the opening fluency activity.
		The Fluency component enables students
		to develop fluency with skills from all
		clusters. The Launch and Learn
		components engage students in both
		conceptual understanding and procedural
		skill and fluency. The Problem Set and Exit
		Ticket offer students the opportunity to
		independently apply their procedural skill
		and fluency, show their conceptual
		understanding, and solve applications
		such as word problems. In Land, students
		often engage in a discussion about their
		concentual understanding of the student
		work in Module 6 Lesson 10 students
		use math drawings to compare a
		rectangle During Learn students draw
		arrays with square tiles representing an
		arrays with square thes representing an
		in the losson, students use precedure!
		in the lesson, students use procedural
		skills and liver their services to the
		make arrays and use their conceptual
		understanding to solve real-world
		problems about the number of brownies
		in multi-dimensional pans (LSSM

		2.OA.A.1). In Module 3, Topics A and B,
	9	students identify and categorize two-
	(dimensional shapes then compose and
	(decompose the shapes (LSSM 2.G.A.1).
	-	The materials build conceptual
		understanding and set a foundation for
	1	fractions work in later grades. Later in
		Module 3, Topic C, lessons focus on
	(conceptual understanding and procedural
	9	skills and fluency aspects of rigor. Students
		partition circles and rectangles into halves,
	1	thirds, and fourths (LSSM 2.G.A.3). This set
	(of lessons begins by building conceptual
		understanding of the standard and then
	1	moves toward a procedural skills and
	1	fluency aspect of rigor later in the module.
		Lesson 10 works solely with halves. In
	1	Lesson 11 students work with halves,
	1	thirds, and fourths. In Lessons 12 and 13,
	5	students practice partitioning circles and
	1	rectangles into halves, thirds, and fourths
	li	in many different ways to help build
	1	fluency. In Lesson 13, students use a
	5	square piece of paper to fold, then cut
	li	into 2 equal parts. Students notice their
	1	pieces do not all look the same and
	(discuss. This activity builds on what
	9	students understood and then practiced in
	1	the previous lessons. Several lessons in
		Module 2 focus on application (LSSM
		2.OA.A.1), conceptual understanding and
		procedural skills and fluency aspects of
		rigor (LSSM 2.NBT.B.7). In Lesson 7,
	9	students solve word problems by
	9	simplifying strategies for addition. In this
		lesson, the aspects of rigor are integrated.
		Students warm up with a Fluency Sprint:

			Add Within 100. In Launch, students solve, "125 students are sitting in the cafeteria. 69 students are standing in the lunch line. How many students are there in all?" (LSSM 2.OA.A.1). Students solve this real- world problem and share their reasoning and justification of how they solved it. The teacher asks students to organize their information in a drawing, such as a number bond or tape diagram. In the Learn portion of the lesson, students practice multiple strategies and use drawings to solve, then share their thinking to demonstrate their understanding.
Non-negotiable 4. FOCUS AND COHERENCE VIA	Required 4a) Materials attend to the full meaning of the practice	Yes	Materials attend to the full meaning of each practice standard. Each practice
PRACTICE STANDARDS:	standards. Each practice standard is connected to		standard is connected to grade-level
Aligned materials make meaningful	grade/course-level content in a meaningful way and is		content and is meaningfully present
and purposeful connections that	present throughout the year in assignments, activities,		throughout the materials. The materials
promote focus and coherence by	and/or problems.		support students' habits of mind based on
connecting practice standards with			the mathematical practices while also
content that is emphasized in the			building conceptual understanding,
Standards. Materials address the			developing fluency, and applying
practice standards in a way to			understanding. Margin notes in the
enrich and strengthen the focus of			teacher materials provide cues and
the content standards instead of			connections to the work of the students
detracting from them.			and the Standards for Mathematical
			section titled "Promoting the Standards
Yes No			for Mathematical Practice." which
			identifies the mathematical practice
			standards present in the lesson. This
			section also provides context of where
			Grade 2 students should be in the
			progression of the mathematical practices.
			For example, Module 3 focuses on shapes

		and time with fraction concepts. In Lesson
		3, students identify right angles in their
		classroom using the right angle of a sticky
		note (LSSM 2.G.A.1). Students attend to
		precision (MP.6) by placing their sticky
		note in the angle to verify that it is a right
		angle. Students evaluate the distinguishing
		attributes of shapes and polygons as they
		answer the question "Does a shape have
		to have right angles to be a polygon?"
		Later, in Lesson 7, students discuss if they
		agree or disagree with the following
		statement: "When you compose a square
		and 2 triangles, you can only make a larger
		triangle" (LSSM 2.G.A.1). Students
		construct viable arguments (MP.3) using
		tangrams to support their reasoning. In
		Lesson 8, students use appropriate tools
		strategically (MP.5) as they select their
		own pattern blocks to cover a trapezoid.
		Students use 3 triangles or 1 triangle and 1
		rhombus to make the trapezoid (LSSM
		2.G.A.3). In Module 1, Lesson 29, students
		look for and express regularity in repeated
		reasoning (MP.8). In the Launch section,
		students chorally count from 776 to 800
		while the teacher records the numbers in
		columns where the numbers with 1 in the
		ones place is the first column and 0 in the
		ones place is the last column (LSSM
		2.NBT.A.2). Students notice the pattern
		that the number in the ones place in each
		column is the same and it increases by 1
		each column.
Required	Yes	Materials provide sufficient opportunities
4b) Materials provide sufficient opportunities for		for students to construct viable arguments
students to construct viable arguments and critique the		and critique the arguments of others


Required	Yes	Response routine to address a common misconception when solving two-step problems. Students identify the error that the length of the green rocket (57 inches minus 25 inches) is not the difference between the two rockets, which is the solution to the problem. In Module 6, Lesson 12, students compare and analyze their work with their partner's work. In the lesson, students compose different arrays with the same total of 16 squares. Students may make 4 rows of 4, 2 rows of 8, 4 columns of 4, or 8 columns of 2. Then they repeat the process with 24 squares. Students compare their array with their partner's array. They analyze the differences and justify the reasoning for the array they chose to create.
4c) Materials explicitly attend to the specialized language of mathematics.	Tes	specialized language of mathematics. The materials use and encourage the use of accurate mathematical terminology as appropriate for the grade level. The Terminology Resource identifies the specialized language of mathematics that is used throughout a module. The resource lists New and Familiar terminology with definitions and descriptions from the module. Items in the New category are discipline-specific words that are introduced to students within the module. These items include the definition, description, or illustration as it is presented to students. Language Support margin notes embedded in the lessons provide guidance to teachers as

	they support students with the specialized
	language of mathematics. Each Module
	Overview and Module Assessment
	Description addresses the proper
	terminology for students to use as well as
	definitions for key terms. The sample
	dialogue in each lesson includes the
	terminology teachers should expect from
	their students when they answer
	questions or share their thinking. In
	Module 1, Lesson 1, teacher guidance
	suggests making a terminology chart to
	record math terms. Throughout the
	lesson, teacher guidance notes which
	specific terms should be added to the
	chart. A Language Support box in the
	margin suggests adding images to the
	chart of a table and picture graphs that
	are labeled. In Module 2, Lesson 20, the
	Language Support box suggests making
	sentence frames to support students in
	using the right terminology, including: "I
	think you do (do not) need to
	unbundle because" and "I think I can
	rename 52 as" In Module 5, Lesson 8,
	the materials introduce an inch as a new
	unit of measurement with an inch-tile and
	compare it to a centimeter-tile. Students
	iterate an inch-tile to create a 12-inch
	ruler. The materials introduce a foot as 12
	inches. Students discuss the multiple
	meanings of foot and that the plural of a
	foot is feet. In Module 6, Lesson 5,
	students organize tiles into arrays and
	describe the characteristics of an array.
	After the students arrange the tiles into
	equal groups, the teacher identifies the

		model as an array and asks what students notice about an array. After the discussion, the teacher states that an array is "a rectangular group or arrangement of objects. It is composed of equal groups organized into rows and columns." The materials connect the terms row and column to pictures of rows in auditoriums and columns of the buildings.
4d) There are teacher-directed materials that explain the role of the practice standards in the classroom and in students' mathematical development.	Yes	Materials include teacher-directed materials that explain the role of the practice standards in the classroom and in students' mathematical development. The materials provide a full explanation of the purpose and intent of the practice standards with in-lesson connections and context for instruction. Each lesson contains a section entitled "Promoting the Standards for Mathematical Practice" that links a specific practice standard to the content of the lesson. The section provides the context of the progression of the standard in the current grade level and in future learning. It provides a specific reference of the lesson activity that implements the practice standard. At the conclusion of each Module, when reviewing achievement descriptors and standards, mathematical practice standards are listed for each module. Within the Implementation Guide, the mathematical practices are explained and highlighted in the margin notes as they appear in specific lessons. Additionally, in the Implementation Guide, the grade-level

	listed for educators as they are presented
	in all modules. In the section highlighting
	Lesson Facilitation, the guide describes
	effective delivery as "delivery that fosters
	student ownership and belonging. This
	curriculum supports this aspect by
	naturally presenting opportunities for
	students to practice the mathematical
	practice standards as they arise within the
	lessons." In Module 5, Lesson 10, the
	margin notes explain how students
	"communicate with precision" (MP.6)
	when they express the length of an object
	by using different units and can justify why
	the unit makes a difference to the
	reported length." The material also
	provides specific questions to promote the
	MP standard, such as "Which units, inches
	or centimeters, are the most efficient to
	express the length of larger objects?" and
	"Why might you choose to use
	centimeters to measure an object if it
	would take fewer inches?" In Module 1,
	Lesson 11, the Promoting the Standards
	for Mathematical Practices margin notes
	state that "identifying answers that do not
	make sense and explaining why builds
	students toward the critiquing the
	reasoning of others." In Module 2, Lesson
	4 the margin notes explain how students
	"construct viable arguments" (MP.3) when
	they Take a Stand for the category that
	they think describes a square and then
	share their reasoning. Specific questions
	to promote the standard follow, such as:
	"Why did you choose the category that
	you did?" and "Would you like to change

			your mind and join a different group? If so,
			what's your reasoning?"
Section II: Additional Alignment Criteria and Indicators of Superior Quality			
5. ALIGNMENT CRITERIA FOR	Required		See EdReports for more information.
STANDARDS FOR MATHEMATICAL	5a) Materials provide all students extensive work with		
CONTENT:	grade/course-level problems.		
Materials foster focus and	Required		
coherence by linking topics (across	5b) Materials relate grade/course-level concepts		
domains and clusters) and across	explicitly to prior knowledge from earlier grades and		
grades/courses by staying	courses. The materials are designed so that prior		
consistent with the progressions in	knowledge is extended to accommodate the new		
the Standards.	knowledge, building to core instruction, on		
	grade/course-level work. Lessons are appropriately		
Yes No	structured and scaffolded to support student mastery.		
	Required		
	5c) There is variety in what students produce. For		
	example, students are asked to produce answers and		
	solutions, but also, in a grade/course-appropriate way,		
	arguments and explanations, diagrams, mathematical		
	models, etc.		
	5d) Support for English Language Learners and other		
	special populations is provided. The language in which		
	problems are posed is not an obstacle to understanding		
	the content, and if it is, additional supports (suggestions		
	for modifications, "vocabulary to preview", etc.,) are		
	included.		
6. QUALITY OF ASSESSMENTS:	Required		
Materials offer assessment	6a) Multiple assessment opportunities are embedded		
opportunities that genuinely	into content materials and measure student mastery of		
measure progress and elicit direct,	standards that reflect the balance of the standards as		
to which students can	presented in materials.		
independently demonstrate the	Required		
assessed grade-specific Louisiana	6b) Assessment items include a combination of tasks		
Student Standards for	that require students to demonstrate conceptual		
Mathematics	understanding, demonstrate procedural skill and		
	fluency, and apply mathematical reasoning and		

	modeling in real world context. Assessment items		
	require students to produce answers and solutions		
Yes No	arguments, explanations, and models, in a grade/course-		
	appropriate way		
	6c) Scoring guidelines and rubrics align to standards		
	incorporate criteria that are specific observable and		
	moor polate criteria triat are specific, observable, and		
	interpreting student performance missencentions and		
	targeted support to opgage in care instruction		
	Call Materials analyside 2.2 community and analysis		
	60) Materials provide 2-3 comprehensive assessments		
	(Interims/benchmarks) that measure student learning up		
	to the point of administration.		
7. ADDITIONAL INDICATORS OF			
QUALITY:	7a) The content can be reasonably completed within a		
Materials are well organized and	regular school year and the pacing of content allows for		
provide teacher guidance for units	maximum student understanding. The materials provide		
and lessons.	guidance about the amount of time a task might		
	reasonably take.		
Materials provide timely supports	Required		
to target specific skills/concepts to	7b) The materials are easy to use and well organized		
address students' unfinished	for students and teachers. Teacher editions are concise		
learning in order to access grade-	and easy to manage with clear connections between		
level work.	teacher resources. Guidance is provided for lesson		
	planning and instructional delivery, lesson flow,		
Yes No	questions to help prompt student thinking, and		
	expected student outcomes.		
	Required		
	7c) Materials include unit and lesson study tools for		
	teachers, including, but not limited to, an explanation of		
	the mathematics of each unit and mathematical point of		
	each lesson as it relates to the organizing concepts of		
	the unit and discussion on student ways of thinking and		
	anticipating a variety of student responses.		
	7d) Materials identify prerequisite skills and concepts	Yes	Materials identify prerequisite skills and
	for the major work of the grade/course, connected to		concepts for the major work of the grade.
	the current on-grade/course-level work.		In the Module Overview, margin notes
			titled, "Before This Module," provide

	prerequisite skills from previous grades or
	earlier in the current grade students need
	to be successful. For an additional
	purchase, Equip Pre-Module Assessments
	are provided for each module that assist in
	identifying students who need work on
	prerequisite skills and concepts. Each item
	on the Pre-Module Assessment is
	connected to a prerequisite standard and
	includes a supporting activity that
	readdresses the content of the item. The
	Equip reports help identify student-
	specific needs and provide data in three
	different ways including performance by
	item, performance by student, and trends
	about overall class performance. For
	example, the Equip Module 1: Place Value
	Concepts Through Metric Measurement
	and Data - Place Value, Counting, and
	Comparing Within 1,000 Overview
	identifies essential foundational
	knowledge needed to access the content
	within Module 1 such as, "Measure the
	length of an object and write the length as
	a whole number of centimeters."
	"Represent and solve word problems
	within 20 with grade 1 addition and
	subtraction comparison problem types
	involving represented lengths." and
	"Write a missing number in a sequence
	within 120." In Module 1, students
	develop place value concepts through
	metric measurement and data and
	counting and comparing within 1,000. In
	the Before This Module section, the
	materials reference Grade 1, Module 1
	where students "collect data by answering

		questions, sorting sets, and making
		observations", and Grade 1 Module 4,
		where students "explore indirect
		comparison, whereby the length of one
		object is used to compare two other
		objects, and they order objects by length."
		In Module 2, the Before This Module
		section references solving complex
		problems within 20 including an unknown
		start from Grade 1 content. Students
		start from Grade 1 content. Students
		Crade 2. In Madule 2. the Defere This
		Grade 2. In Module 3, the Before This
		Module section states that in Grade 1,
		students describe and name two-
		dimensional shapes by defining their
		attributes, a prerequisite to Grade 2
		geometry content. In addition, the
		Essential Foundational Knowledge guide
		identifies the Achievement Descriptors
		from prior grade levels or lessons that are
		assessed on the Pre-Assessments.
7e) Materials provide guidance to help teachers identify	Yes	Materials provide guidance to help
students who need prerequisite work to engage		teachers identify students who need
successfully in core instruction, on-grade/course-level		prerequisite work to engage successfully
work.		in core instruction. The Implementation
		Guide references that Pre-Module
		assessments are available with Eureka
		Math Squared Equip to identify and
		support students' unfinished learning. The
		Pre-Assessments "focus on assessing
		foundational knowledge essential to the
		content of the upcoming lesson." The Pre-
		Module Assessment reports provide data
		to identify student-specific needs. The
		goal of the pre-assessment is to clearly
		identify which students need to engage in
		identity which students heed to engage III

7f) Materials provide targeted, aligned, prerequisite work for the major work of the grade/course, directly connected to specific lessons and units in the curriculum. Yes Materials provide targeted, aligned, prerequisite work for the major work of the grade/course, directly connected to specific lessons and units in the curriculum. The materials include four Pre-Module Assessments that target foundational, prerequisite knowledge for the upcoming modules. The Pre-Module Assessment is administered. Each item in the curriculum due and the curriculum and the curriculum and the curriculum and the results after a pre-assessment is administered. Each item in the Pre-Assessment corresponds to at least one Supporting Activity that can be used to meet the needs of students who require prerequisite work. The Equip User Guide provides information for the Supporting Activity that corresponds to each item in the Pre-Assessment, such as explanations of why the knowledge is foundational to the module, when specifically in the module the knowledge is foundational to the module the needed, and where in the module there is lesson-metheded preverse Sirae and where in the module there is lesson-metheded preverse. The Supporting Activity that lesson 4 as foundational knowledge. For example, for Module 4, lesson 4 as foundational content. In addition, a Supporting Activity that lesson 4 as foundational content. In addition, a Supporting Activity the results and as second and as the second at a second and where in the module there.			
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materials include four Pre-Module Assessments that target foundational, prerequisite knowledge for the upcoming modules. The Pre-Module Assessment results used along with the Equip User Guide provide specific activities to provide timely remediation for the current module. Teachers are guided to analyze the results after a pre-assessment is administered. Each item in the Pre- Assessment corresponds to at least one Supporting Activity that can be used to meet the needs of students who require prerequisite work. The Equip User Guide provides information for the Supporting Activity that corresponds to each item in the Pre-Module Assessment, such as explanations of why the knowledge is foundational to the module, when specifically in the module the knowledge will be needed, and where in the module there is lesson-embedded practice with the foundational knowledge. For example, for Module 1, Item 1 of the Pre- Assessment, the Equip guide references Grade 1, Module 4, Lesson 4 as foundational content. In addition, a Supporting Activity is provided that aligns with the foundation content for the Pre-	curriculum.		lessons and units in the curriculum. The
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with the foundation content for the Pre-			Supporting Activity is provided that aligns
			with the foundation content for the Pre-
			Assessment item.

	7g) Materials provide clear guidance and support for teachers about the structures that allow students to appropriately address unfinished learning using prerequisite work.		See EdReports for more information.
FINAL EVALUATION <i>Tier 1 ratings</i> receive a "Yes" for a <i>Tier 2 ratings</i> receive a "Yes" for a <i>Tier 3 ratings</i> receive a "No" for a	all Non-negotiable Criteria and a "Yes" for each of the Additior all Non-negotiable Criteria, but at least one "No" for the Additi t least one of the Non-negotiable Criteria.	nal Criteria of Su onal Criteria of	iperior Quality. Superior Quality.
Compile the results for Sections I	and II to make a final decision for the material under review	•	
Section	Criteria	Yes/No	Final Justification/Comments
	1. Focus on Major Work	Yes	Materials devote a large majority of time to the major work of the grade. Materials spend minimal time on content outside of the appropriate grade level. In assessment materials, assessment components do not make students/teachers responsible for any topics before the grade in which they are introduced.
I: Non-negotiable Criteria of Superior Quality ⁵	2. Consistent, Coherent Content	Yes	Materials connect supporting content to major content in meaningful ways so that focus and coherence are enhanced throughout the year. Materials include problems and activities that connect two or more clusters in a domain and/or two or more domains in the grade level where these connections are natural and important.
	3. Rigor and Balance	Yes	Materials develop conceptual understanding of key mathematical concepts, especially where called for explicitly in the standards. Materials are designed so that students attain the fluencies and procedural skills required by the standards. Materials are designed so that students spend sufficient time

⁵ Must score a "Yes" for all Non-negotiable Criteria to receive a Tier 1 or Tier 2 rating.

			working with engaging applications. It is evident in the materials that the three aspects of rigor are not always treated together and are not always treated separately.
	4. Focus and Coherence via Practice Standards	Yes	Materials attend to the full meaning of each practice standard. Each practice standard is connected to grade-level content and is meaningfully present throughout the materials. Materials provide sufficient opportunities for students to construct viable arguments and critique the arguments of others concerning key grade-level mathematics that is detailed in the content standards. Materials explicitly attend to the specialized language of mathematics. Materials include teacher-directed materials that explain the role of the practice standards in the classroom and in students' mathematical development.
	5. Alignment Criteria for Standards for Mathematical Content		See EdReports for more information.
	6. Quality of Assessments		See EdReports for more information.
II: Additional Alignment Criteria and Indicators of Superior Quality ⁶	7. Additional Indicators of Quality		Materials identify prerequisite skills and concepts for the major work of the grade when applicable. Materials provide guidance to help teachers identify students who need prerequisite work to engage successfully in core instruction. Materials provide targeted, aligned, prerequisite work for the major work of the grade directly connected to specific lessons and units in the curriculum.

⁶ Must score a "Yes" for all Additional Criteria of Superior Quality to receive a Tier 1 rating.

FINAL DECISION FOR THIS MATERIAL: Tier 1, Exemplifies quality





Qualified for Abbreviated Review¹

FOCUS COHERENCE COHE

Title: Eureka Math²

Grade/Course: <u>3</u> Copyright: <u>2021</u>

Publisher: Great Minds PBC

Overall Rating: Tier 1, Exemplifies quality

Tier 1, Tier 2, Tier 3 Elements of this review:

Strong mathematics instruction contains the following elements:

STRONG	WEAK
1. Focus on Major Work (Non-negotiable)	
2. Consistent, Coherent Content (Non-negotiable)	
3. Rigor and Balance (Non-negotiable)	
4. Focus and Coherence via Practice Standards	
(Non-negotiable)	
5. Alignment Criteria for Standards for	
Mathematical Content	
6. Quality of Assessments	
7. Indicators of Quality	

¹ Abbreviated Reviews are conducted in K-12 ELA and K-12 Math for submissions that **Meet Expectations** for Gateways 1 and Gateway 2 through EdReports. Reviewers considered these reports as they reviewed materials for alignment to Louisiana state standards and quality Non-negotiable indicators. See the full EdReports review at <u>https://www.edreports.org/reports/overview/eureka-math2-2021</u>.





To evaluate instructional materials for alignment with the standards and determine tiered rating, begin with **Section I: Non-negotiable Criteria**.

- Review the **required**² Indicators of Superior Quality for each **Non-negotiable** criterion.
- If there is a "Yes" for all **required** Indicators of Superior Quality, materials receive a "Yes" for that **Non-negotiable** Criterion.
- If there is a "No" for any of the **required** Indicators of Superior Quality, materials receive a "No" for that **Non-negotiable** Criterion.
- Materials must meet **Non-negotiable** Criterion 1 and 2 for the review to continue to **Non-negotiable** Criteria 3 and 4. Materials must meet all of the **Non-negotiable** Criteria 1-4 in order for the review to continue to Section II.
- If materials receive a "No" for any **Non-negotiable** Criterion, a rating of Tier 3 is assigned, and the review does not continue.

If all Non-negotiable Criteria are met, then continue to Section II: Additional Criteria of Superior Quality.

- Review the **required** Indicators of Superior Quality for each criterion.
- If there is a "Yes" for all **required** Indicators of Superior Quality, then the materials receive a "Yes" for the additional criteria.
- If there is a "No" for any **required** Indicator of Superior Quality, then the materials receive a "No" for the additional criteria.

Tier 1 ratings receive a "Yes" for all Non-negotiable Criteria and a "Yes" for each of the Additional Criteria of Superior Quality.

Tier 2 ratings receive a "Yes" for all Non-negotiable Criteria, but at least one "No" for the Additional Criteria of Superior Quality.

Tier 3 ratings receive a "No" for at least one of the Non-negotiable Criteria.

² **Required Indicators of Superior Quality** are labeled "**Required**" and shaded yellow. Remaining indicators that are shaded white are included to provide additional information to aid in material selection and do not affect tiered rating.

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
Section I: Non-negotiable Criteria Non-negotiable Criteria 3 and 4. I	of Superior Quality: Materials must meet Non-negot Materials must meet all of the Non-negotiable Criteria	iable Criteria 1 a 1-4 in order fo	and 2 for the review to continue to or the review to continue to Section II.
Non-negotiable 1. FOCUS ON MAJOR WORK ³ : Students and teachers using the materials as designed devote the large majority ⁴ of time to the major work of the grade/course. Yes	Required 1a) Materials devote the majority of class time to the major work of each grade/course.	Yes	Materials devote a large majority of time to the major work of the grade. Of the 141 instructional, 73% are spent on major work of the grade. Specifically, 61% of lessons are spent on major standards, 12% of lessons are spent on a combination of major standards and supporting/additional standards, 24% of lessons are spent on supporting or additional standards, and 3% of lessons are labeled as optional or foundational work.
	Required 1b) Instructional materials, including assessments, spend minimal time on content outside of the appropriate grade/course during core math instruction. Content beyond grade/course-level should be clearly labeled as optional.	Yes	Materials spend minimal time on content outside of the appropriate grade level during core math instruction. In assessment materials, assessment components do not make students/teachers responsible for any topics before they are introduced. Lessons that address content outside of the grade level are clearly marked as optional. In addition, the materials include a Louisiana Teacher Alignment Guide that provides modifications to lessons, lesson components, and assessment items to ensure full alignment to the Louisiana Student Standards for Mathematics (LSSM). The guide indicates four lessons to omit completely since they address

³ For more on the major work of the grade, see Focus by Grade Level. ⁴ The materials should devote at least 65% and up to approximately 85% of class time to the major work of the grade with Grades K–2 nearer the upper end of that range, i.e., 85%.

			content outside of the grade level. In addition, the guide includes additional lessons to meet the full intent of the standards. In addition, guidance is provided to omit certain Achievement Descriptors and assessment items that do not align with the Grade 3 LSSM. For example, Module 4 includes 19 lessons. In the Louisiana Teacher Alignment Guide, Lessons 14 and 15 are labeled omit because the lessons call for learning outside of Grade 3 LSSM. Module 2 includes 25 lessons and none of the lessons are labeled omit as all lessons and assessment items align to the LSSM. Guidance in the Louisiana Teacher Alignment Guide, Benchmark 2, Session 1 states to "omit items 2 and 8." At times content from previous grade levels is addressed, but only to connect prior knowledge to grade-level content. For example, Module 1, Lesson 1 reviews second grade content (2.NBT.A.2) but clearly states that the lesson is foundational for Grade 3. In addition, the Grade 2 standard is not assessed in the Module 1 Assessment.
Non-negotiable	Required	Yes	Materials connect supporting content to
2. CONSISTENT, COHERENT CONTENT Each course's instructional materials are coherent and consistent with the content in the Standards.	2a) Materials connect supporting content to major content in meaningful ways so that focus and coherence are enhanced throughout the year.		major content in meaningful ways so that focus and coherence are enhanced throughout the year. Materials are structured so that lessons that address major work precede lessons that address supporting work allowing major work of the grade to be applied and reinforced throughout the year. The Achievement

		at the beginning of each lesson note the
		connections made among other standards
		within the lesson. In Module 2, Lesson 13,
		students draw a scaled bar graph and
		solve one- and two-step word problems
		using the information from the graphs
		(LSSM 3.MD.B.3). During the Learn portion
		of the lesson, students use bar graphs to
		solve two-step word problems (LSSM
		3.OA.D.8), which is first developed in
		Module 1. In Module 4, Lesson 5, students
		explore attributes of polygons, specifically
		squares, rectangles, and trapezoids, and
		tile polygons with squares and half-
		squares to find the area, connecting
		supporting LSSM 3.G.A.1 to major LSSM
		3.MD.C.6, which is first developed in the
		prior lessons and then reinforced in
		Lesson 5. Module 6, Topic D, students
		"synthesize what they have learned
		throughout the year to connect concepts
		related to whole number computation,
		place, value, fractions, and measurement
		data." For example, in Lessons 20 and21,
		students organize data in a table and
		create a line plots and partition number
		line scales into quarter-inch intervals,
		connecting supporting LSSM 3.MD.B.4 to
		LSSM 3.NF.A.2, which is first developed in
		Module 5.
Required	Yes	Materials include problems and activities
2b) Materials include problems and activities that serve		that connect two or more clusters in a
to connect two or more clusters in a domain , or two or		domain and/or two or more domains in
more domains in a grade/course , in cases where these		the grade level where these connections
connections are natural and important.		are natural and important. Various lessons
		throughout the materials include
		standards from multiple clusters and/or

	domains. Module 1 exemplifies the
	natural and meaningful connection of
	Operations and Algebraic clusters of A, B,
	C, and D as students move from
	representing and solving problems
	involving multiplication and division to
	then understanding the properties of
	those operations, becoming more fluent
	within 100 and applying their knowledge
	by solving two-step word problems. This
	gradual connection begins in Lesson 8 and
	highlights the properties of operations in
	Lessons 10-14. For example, in Module 1,
	Lesson 10 students interpret products of
	whole numbers as the total number of
	objects and apply the commutative
	property as a strategy to multiplication
	problems connecting clusters A (Represent
	and solve problems involving
	multiplication and division) and B
	(Understand properties of multiplication
	and the relationship between
	multiplication and division) of the
	Operations and Algebraic Thinking (OA)
	domain. Within Lesson 10, Problem Set,
	students encounter an array in which they
	apply the commutative property to create
	equations that represent the total number
	of objects, resulting in 2 x 8 = 16 and 8 x 2
	= 16 (LSSM 3.OA.A.1 and 3.OA.B.5).
	Module 3 extends this coherence with the
	same clusters being connected, accenting
	a strong focus on cluster B (Understanding
	properties of multiplication and the
	relationship between multiplication and
	division) and the fluency expectation of
	cluster C (Multiply and divide within 100).

Non-negotiable 3. RIGOR AND BALANCE: Each grade's instructional materials	Required 3a) Attention to Conceptual Understanding: Materials develop conceptual understanding of key mathematical	Yes	Module 3, Lesson 21, connects the Operations and Algebraic Thinking domains (OA) and the Number and Operations in Base Ten (NBT) domains as students multiply one-digit whole numbers by multiples of 10 in the range 10–90 using strategies based on place value and properties of operations (LSSM 3.NBT.A.3) and apply the distributive property to decompose numbers in the problem (LSSM 3.OA.B.5). Specifically, during the Launch session, students begin the session with the problem 3 x 60. Students decompose the expression to 3 x (6 x 10), then apply the problem to a place value chart to solve the problem. Materials develop conceptual understanding of key mathematical concepts, especially where called for
reflect the balances in the Standards and help students meet the Standards' rigorous expectations, by helping students develop conceptual understanding, procedural skill and fluency, and application.	concepts , especially where called for explicitly in specific content standards or cluster headings by featuring high- quality conceptual problems and discussion questions.		explicitly in the standards. Throughout each of the modules, the materials provide activities and discussion prompts to build conceptual understanding. At the end of the lessons, students demonstrate an understanding of the concepts presented in the lesson. The materials align with the rigor expectations specified in the standards. Students develop the
			concepts through a combination of concrete, pictorial, and abstract experiences over time. Throughout the materials, students use visual models, multiple representations, and manipulatives to build conceptual understanding. In Module 1, Lesson 2, students build understanding of multiplication as they find the total

	number of equal groups using strategies of
	skip-counting and repeated addition then
	describe the groups in unit form and write
	related multiplication equations
	confirming the terms multiply and
	multiplication. Over the course of Lessons
	4 and 5, students write multiplication
	equations to represent the equal groups
	and arrays. In Lesson 6, students
	demonstrate understanding of the
	concept of multiplication as equal groups
	and the ability to connect a symbolic
	representation to real-world situations in
	word problems within the lesson. For
	example, students solve "A Roller coaster
	has 10 cars. There are 3 people in each
	car. How many people are on the roller
	coaster?" (LSSM 3.OA.A.1). In Module 1,
	Topic D, students extend their
	understanding of the meaning of the equal
	sign and develop conceptual
	understanding of the inverse relationship
	of multiplication and division (LSSM
	3.OA.A.4, 3.OA.B.6). This conceptual
	development continues through Module 1
	as students explore properties of
	multiplication and division (LSSM
	3.OA.B.5) and extend the work utilizing
	more complex strategies and units of 6, 7,
	8, 9, 0, and 1 in Module 3. In Module 4,
	students begin to experience a
	progression from concrete manipulatives
	to representational images to the abstract
	formula of area while gaining a deep
	conceptual understanding of
	measurement and its connection to
	multiplication (LSSM 3.MD.C.5). In Lessons

		1-3, students explore the attributes of
		regular polygons and tile those polygons
		to find the area, answering questions that
		compare the area of one polygon to
		another in a given set. In Module 5,
		students develop conceptual
		understanding of fractions as numbers as
		they represent fractions on a number line,
		define the interval that is the whole, and
		partition it into equal parts. For example,
		in Lesson 11, students locate fractions on
		a number line using fraction tiles. In
		Lesson 12, students understand the
		fractional size compared to the fraction
		value and its location on a number line
		when solving "Deepa cleans her room for
		1 hour. After each ¼ hour, Deepa starts to
		clean a different part of her room. How
		many different parts of her room does
		Deepa clean during her 1-hour cleaning
		time? What fraction of the whole cleaning
		time has Deepa completed when she gets
		to the point on the number line shown by
		the star? At ¾ hours, Deepa starts to clean
		her closet. Label the number line to show
		when Deepa starts to clean her closet"
		(LSSM 3.NF.A.2.a, 3.NF.A.2.b).
Required	Yes	Materials are designed so that students
3b) Attention to Procedural Skill and Fluency: The		attain the fluencies and procedural skills
materials are designed so that students attain the		required by the standards. Materials are
fluencies and procedural skills required by the content		designed so that students attain the
standards. Materials give attention throughout the year		fluencies and procedural skills required by
to individual standards that set an expectation of		the standards. Each lesson begins with
procedural skill and fluency. In grades K-6, materials		fluency practice to support a progression
provide repeated practice toward attainment of fluency		of learning over time throughout the
standards. In higher grades, sufficient practice with		course. Students have opportunities to
		develop procedural skills aligned with the

algebraic operations is provided in order for students to	standards in the materials. According to
by the foundation for later work in algebra	the Implementation Guida, "Eluonau
	provides distributed practice with
	provides distributed practice with
	previously learned material. It is designed
	to prepare students for new learning by
	activating prior knowledge and bridging
	small learning gaps. Fluency routines are
	developed over time to support students
	in counting and calculating as they are
	used consistently across lessons and
	include activities such as choral response,
	Whiteboard Exchange, and Sprint. The
	implementation guide provides guiding
	questions and suggestions for fluency
	implementation. Additionally, fluency is
	expected as an end-of-the-year
	performance expectation but can be
	achieved at various points throughout the
	year. As students move through Module 1,
	they progress from conceptual
	understanding of multiplication, division
	and their properties of operations to the
	required fluency of knowing the products
	and quotients within 100 and continue to
	practice throughout the remaining
	modules (LSSM 3.OA.C.7). The fluency skill
	is continuously built upon in Module 1 as
	seen in Lesson 11 when students
	group/skip count "the math way" by fives
	and fours and in Lesson 16 as students
	"count the math way" by tens and fours,
	and so on. Within Module 1, Lessons 19
	and 20, students use the distributive
	property to fluently multiply problems by
	breaking apart factors into known facts.
	Students are given more opportunities to
	refine LSSM 3.OA.C.7 in Module 3, Lesson

		2 as students "count the math way" by threes and show fluency with threes in Lesson 16 in the form of a Sprint (multiply and divide by 3). The materials also provide opportunities to fluently add and subtract within 1000 (LSSM 3.NBT.A.2), building on Grade 2 multi-digit addition and subtraction, using strategies and algorithms. In Module 1, Lesson 21 Fluency, students add or subtract within 1000 solving 217 + 12; 217 + 312; 14 + 15; 29 - 15; 314 + 315; 529 - 315; 36 + 53; 89- 36; 436 + 252; and 689 - 252 on whiteboards. This is also evident in Module 2 as students add measurements using the standard algorithm to compose larger units twice in Lesson 21. The materials provide multiple opportunities to build fluency with multiplying one-digit whole numbers by multiples of ten (LSSM 3.NBT.A.3). For example, in Module 2, Lesson 14, Fluency, students multiply one- digit factors by 10, and, in Module 5, Lesson 14, students find hidden factors as they multiply a one digit-number by a multiple of ten
Required 3c) <i>Attention to Applications:</i> Materials are designed so that teachers and students spend sufficient time working with engaging applications , including ample practice with single-step and multi-step contextual problems, including non-routine problems, that develop the mathematics of the grade/course, afford opportunities for practice, and engage students in problem solving. The problems attend thoroughly to those places in the content standards where	Yes	Materials are designed so that students spend sufficient time working with engaging applications. The materials provide practice with single- and multi- step contextual problems that develop the mathematics for the grade and engage students in problem solving. The progression of the modules includes opportunities within the lessons to apply conceptual understanding and procedural skills within the context of real-world

expectations for multi-step and real-world problems are		problems. Students answer questions in
explicit.		pairs, small groups, and whole groups
		where they justify and explain their
		reasoning. For example, in Module 2,
		Lesson 2, students use all four operations
		to solve one-step word problems involving
		weight as they weigh two classroom
		objects by using a digital scale (LSSM
		3.MD.A.2). In Module 3, Lesson 2,
		students apply knowledge of division to
		solve the following problem: "There are 48
		teacher mailboxes in the office. The
		mailboxes are in 6 equal rows. How many
		mailboxes are in each row?" Students
		draw a tape diagram and then write a
		division equation to solve the word
		problem (LSSM 3.OA.A.3). In the Louisiana
		Alignment Teacher's Guide, Module 6,
		Lessons 7.1 and 7.2 address LSSM
		3.MD.E.9 as students solve problems
		about money. Specifically, within Lesson
		7.1, students solve the following problem:
		"Miss Wong has 3 pennies, 1 dime, 1
		quarter, and 6 nickels. She finds 2 more
		dimes, 1 more nickel, and two more
		pennies. Now she has exactly enough to
		buy an ice cream cone. How much does an
		ice cream cone cost?" In Lesson 7.2,
		Problem Set, students solve the following
		multi-step problem: "Luke wants to buy a
		video gaming system that costs \$449. He
		has \$ 175. His mom gives him \$148. How
		much more money does Luke need to buy
		the video gaming system?"
Required	Yes	It is evident in the materials that the three
3d) Balance: The three aspects of rigor are not always		aspects of rigor are not always treated
treated together and are not always treated separately.		together and are not always treated

separately. The materials reflect the balance of rigor in the standards. The structure of the materials help students develop the concepts and skills necessary to build and appl math knowledge. The Lessons are structured into sections titled Fluency, Launch, Learn, and Land. The three components of rigor are found within different sections of the lesson, and the lesson sign with the expectations of rigor within each standard. Procedural skills and fluency appear in each lesson in the opening Fluency activity. The Fluency component enables students to develop fluency with kills from all clusters. The Launch and Learn components engage students in both conceptual understanding and procedural skill and fluency. The Problem Set and Exit Ticket offer students the opportunal understanding, and solve applications such as word problems. In Land, students often engage in a discussion about their conceptual understanding of the students work. In Module 2, Lesson 3, all three components of rigor are integrated into the lesson. Within the lesson, students build conceptual understanding as they weigh letters on a digital scale and then procedurally add to find the total weight. Students with a division equation and related multiplication equation to describi equal groups prictures (LSSM 3.0.4.C.7). In Module 2, Lesson 3, all three components of rigor are integrated into the lesson.		
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procedurally add to find the total weight. Students apply conceptual understanding		items on a digital scale and then
Students apply conceptual understanding		procedurally add to find the total weight.
		Students apply conceptual understanding

			-
			and procedural skill as they solve one-step
			word problems such as "Mrs. Smith put 5
			copies of the same book on a scale. How
			much does each book weigh?" Students
			use the picture of the scale and
			information from the problem to solve
			(LSSM 3.MD.A.2). Module 1, Lesson 22,
			students represent and solve two-step
			problems using the properties of
			multiplication. Students apply knowledge
			of the distributive property of
			multiplication as they break apart the
			number of groups from 6 to 5 and 1 to
			multiply by 9 (LSSM 3.OA.C.7). In Module
			4, Lesson 11, students solve real-world
			problems involving areas of rectangles
			(LSSM 3.MD.C.7b) by drawing rectangular
			arrays of squares, determine the number
			of squares in each row, and then write a
			multiplication sentence to represent the
			number in each row by the number of
			rows (LSSM 3.MD.C.7b). In Module 1, the
			three aspects of rigor are found as
			students begin to explore multiplication
			and division along with their properties,
			and are also given fluencies to hone the
			skills of group/skip counting "the math
			way" in Lessons 3 and 6 Fluency section.
			The application in understanding
			multiplication and division is found as
			students access the lessons in Module 1,
			Topic E.
Non-negotiable	Required	Yes	Materials attend to the full meaning of
4. FOCUS AND COHERENCE VIA	4a) Materials attend to the full meaning of the practice		each practice standard. Each practice
PRACTICE STANDARDS:	standards. Each practice standard is connected to		standard is connected to grade-level
Aligned materials make meaningful	grade/course-level content in a meaningful way and is		content and is meaningfully present
and purposeful connections that			throughout the materials. The materials



		Operations and Algebraic Thinking (OA)
		standards for multiplication. In Module 2,
		Lesson 9, Learn, students reason
		quantitatively and abstractly (MP.2) as
		they round using a vertical number line
		(LSSM 3.NBT.A.1). Students answer the
		following questions as they discuss a
		graduated cylinder that has 73 milliliters
		of water: "How does the graduated
		cylinder help you see what numbers to
		mark on your number line?" and "What
		does your number line tell you about the
		amount of water in the graduated
		cylinder?" In Module 4, Lesson 9, Learn,
		students choose a strategy (MP.5) to find
		the length of an unknown side length
		(LSSM 3.MD.C.7.b). Students answer the
		following questions as they discuss
		choosing the appropriate tool, "Which
		strategy would be most efficient to find
		the unknown side length? Why?" and
		"Why did you choose to draw all the unit
		squares? Did that work well?" In Module
		5, Lesson 4, students look for and make
		use of structure (MP.7) as they continue to
		build an understanding of fractions as a
		whole composed of fractional units by
		answering the following questions, "How
		are wholes and fourths related?" and
		"How is working with fractional units
		similar to working with place value units
		such as ones and tens?" (LSSM 3.G.A.2).
Required	Yes	Materials provide sufficient opportunities
4b) Materials provide sufficient opportunities for		for students to construct viable arguments
students to construct viable arguments and critique the		and critique the arguments of others
arguments of others concerning key grade/course-level		concerning key grade-level mathematics
mathematics that is detailed in the content standards		that is detailed in the content standards.

(of MD 2) Materials angage students in problem solving	The lassance are structured with
(CI. IVIP.3). Waterials engage students in problem solving	The lessons are structured with
as a form of argument, attending thoroughly to places in	opportunities for students to engage in
the standards that explicitly set expectations for multi-	mathematical reasoning through
step problems.	discussion questions and prompts. The
	materials provide opportunities for
	students to form viable arguments and
	critique the arguments of others
	throughout the lessons. Lessons also
	include several routines designed to
	promote discourse. For example, students
	determine a misconception in sample
	work and then construct viable arguments
	to convince the teacher of the correct
	solution path or solution. The materials
	also provide opportunities for students to
	conduct error analyses. In Module 3,
	Lesson 5, students answer the following
	questions: "How did you and your partner
	break apart 6? Explain why you broke
	apart 6 the way you did." In Break Apart
	and Distribute 6, students critique the
	work and engage in mathematical
	reasoning through justification. In Module
	4, Lesson 2 Problem Set, students solve
	the following problem: "Mia says that
	shapes A, B, and C all have different areas
	because they all look different. Is she
	correct? Explain." Students construct an
	argument that Mia is incorrect because A
	and C both have an area of 12 square tiles.
	In Module 2, Lesson 15, students analyze
	sample work and discuss what makes it
	valid and why. The students answer the
	following questions: "What parts of Liz's
	strategy do you question? Why?" and
	"Why does Liz's strategy work? Convince
	your partner." In Module 2, Lesson 24

		students discuss and defend whether the
		given statement is always sometimes or
		never true. Students answer the following
		questions: "Can you find a problem where
		the standard algorithm is not the best way
		to subtract?" and "When would the
		standard algorithm be the best way to
		subtract?" In Module 5, Lesson 9, students
		refine explanations about why wholes
		need to be the same size for fractions to
		he compared answering "Is your solution
		a guess or do you know for sure?" "How
		do you know for sure?" "What questions
		can you ask your partner to make sure you
		understand their thinking?" and "Can you
		think of a situation where it would be true
		that 1 half is the same as 1 half?"
Pequired	Vos	Materials explicitly attend to the
Ac) Materials explicitly attend to the specialized	165	specialized language of mathematics. The
language of mathematics		materials use and encourage the use of
		accurate mathematical terminology as
		appropriate for the grade level. The
		Terminology Resource identifies the
		specialized language of mathematics that
		is used throughout a module. The
		resource lists New and Familiar
		terminology with definitions and
		descriptions from the module. Items in the
		New category are discipline-specific words
		that are introduced to students within the
		module. These items include the
		definition description or illustration as it
		is presented to students. Language
		Support margin notes embedded in the
		lessons provide guidance to teachers as
		they support students with the specialized
		language of mathematics. Each Module
		ianguage of mathematics. Each would

	Overview and Module Assessment
	Description addresses the proper
	terminology for students to use as well as
	definitions for key terms. The sample
	dialogue in each lesson includes the
	terminology teachers should expect from
	their students when they answer
	questions or share their thinking. In
	Module 1, Lesson 10, students learn about
	the commutative property of
	multiplication. To explore this concept
	prior to identifying the term, students
	create and rotate arrays to represent
	related multiplication equations, such as 5
	x 2 = 10 and 2 x 5 = 10. Students learn the
	formal definition of the term and use the
	property as they solve: "Pablo arranges his
	grapes into 7 rows. Each row has 2 grapes.
	How many total grapes does Pablo have?
	Use the commutative property to write a
	different multiplication equation for the
	array." As students move into
	understanding the distributive property,
	they learn the mathematical terminology
	of parentheses and use them in their
	solutions of Module 1, Lesson 12, and
	explain their use when answering, "How
	do parentheses show the smaller arrays
	within a larger array?" This specialized
	language continues throughout the
	modules such as in Module 5, Lesson 1 as
	students are introduced to fractional
	units. In Module 4, students learn the
	definitions of the New terms: area, area
	model, length, side length, square
	centimeter, square inch, square units, unit
	square, and width. The terms array,

		attribute, break apart and distribute, line plot, parallel, polygon, quadrilateral, rectangle, right angle, square, and trapezoid are listed in the Familiar section. Observe is identified in the Academic section. Within the Teaching Guide for Module 5, Lesson 7, a box titled Language Support is found in the Fraction Art section of the lesson. In the box, it states, "Consider supporting students in using the terms fractional unit, unit fraction, and fraction form. Throughout the lesson, invite students to point or gesture to indicate where each term is represented in the model thereby encouraging the use of accurate mathematical terminology when students decompose a rectangular strip into parts."
4d) There are teacher-directed materials that explain the role of the practice standards in the classroom and in students' mathematical development.	Yes	Materials include teacher-directed materials that explain the role of the practice standards in the classroom and in students' mathematical development. The materials provide a full explanation of the purpose and intent of the practice standards with in-lesson connections and context for instruction. Each lesson contains a section entitled "Promoting the Standards for Mathematical Practice" that links a specific practice standard to the content of the lesson. The section provides the context of the progression of the standard in the current grade level and in future learning. It provides a specific reference of the lesson activity that implements the practice standard. At the conclusion of each Module, when reviewing achievement descriptors and

	standards, mathematical practice
	standards are listed for each module.
	Within the Implementation Guide, the
	mathematical practices are explained and
	highlighted in the margin notes as they
	appear in specific lessons. Additionally, in
	the Implementation Guide, the grade level
	standards and practice standards are
	listed for educators as they are presented
	in all modules. In the section highlighting
	Lesson Facilitation, the guide describes
	effective delivery as "delivery that fosters
	student ownership and belonging. This
	curriculum supports this aspect by
	naturally presenting opportunities for
	students to practice the mathematical
	practice standards as they arise within the
	lessons." In Module 1, Lesson 3, the
	Promoting the Standards for
	Mathematical Practice states, "Students
	reason quantitatively and abstractly (MP2)
	as they discuss the array of cubes and
	corresponding multiplication, using two
	quantitative sentence frames (more
	concrete descriptions of the cubes) and
	two abstract sentence frames. Ask the
	following questions to promote MP2:
	What does the product you found tell you
	about the cubes? What do the numbers in
	the first sentence tell you about the
	numbers in the first sentence frame?"
	Later in Lesson 5, the Promoting the
	Standards for Mathematical Practice
	states, "Students model with mathematics
	(MP4) as they iteratively create a drawing
	and equation to represent and solve a
	word problem (i.e., the Read–Draw–Write

		process). Ask the following questions to promote MP4: What can you draw to help you understand the roller coaster problem? What kind of math could you use to represent your model? What key
		pieces of information from the roller coaster problem should be in your model and your equation?"
Section II: Additional Alignment (Criteria and Indicators of Superior Quality	
5. ALIGNMENT CRITERIA FOR STANDARDS FOR MATHEMATICAL CONTENT:	Required 5a) Materials provide all students extensive work with grade/course-level problems.	See EdReports for more information.
Materials foster focus and coherence by linking topics (across domains and clusters) and across grades/courses by staying consistent with the progressions in the Standards.	Required 5b) Materials relate grade/course-level concepts explicitly to prior knowledge from earlier grades and courses. The materials are designed so that prior knowledge is extended to accommodate the new knowledge, building to core instruction, on grade/course-level work. Lessons are appropriately structured and scaffolded to support student mastery. Required 5c) There is variety in what students produce. For example, students are asked to produce answers and solutions, but also, in a grade/course-appropriate way, arguments and explanations, diagrams, mathematical	
	 models, etc. 5d) Support for English Language Learners and other special populations is provided. The language in which problems are posed is not an obstacle to understanding the content, and if it is, additional supports (suggestions for modifications, "vocabulary to preview", etc.,) are included. 	

6. QUALITY OF ASSESSMENTS:	Required	
Materials offer assessment	6a) Multiple assessment opportunities are embedded	
opportunities that genuinely	into content materials and measure student mastery of	
measure progress and elicit direct.	standards that reflect the balance of the standards as	
observable evidence of the degree	presented in materials.	
to which students can	' Demoined	
independently demonstrate the	Required	
assessed grade-specific Louisiana	6b) Assessment items include a combination of tasks	
Student Standards for	that require students to demonstrate conceptual	
Mathematics.	understanding, demonstrate procedural skill and	
	fluency, and apply mathematical reasoning and	
	modeling in real world context. Assessment items	
Yes No	require students to produce answers and solutions,	
	arguments, explanations, and models, in a grade/course-	
	appropriate way.	
	6c) Scoring guidelines and rubrics align to standards,	
	incorporate criteria that are specific, observable, and	
	measurable, and provide sufficient guidance for	
	interpreting student performance, misconceptions, and	
	targeted support to engage in core instruction.	
	6d) Materials provide 2-3 comprehensive assessments	
	(interims/benchmarks) that measure student learning up	
	to the point of administration.	
7. ADDITIONAL INDICATORS OF	Required	
QUALITY:	7a) The content can be reasonably completed within a	
Materials are well organized and	regular school year and the pacing of content allows for	
provide teacher guidance for units	maximum student understanding. The materials provide	
and lessons.	guidance about the amount of time a task might	
	reasonably take.	
Materials provide timely supports	Required	
to target specific skills/concepts to	7b) The materials are easy to use and well organized	
address students' unfinished	for students and teachers. Teacher editions are concise	
learning in order to access grade-	and easy to manage with clear connections between	
level work.	teacher resources. Guidance is provided for lesson	
	planning and instructional delivery, lesson flow,	
	questions to help prompt student thinking, and	
	expected student outcomes.	
	Required	
7c) Materials include unit and lesson study tools for teachers , including, but not limited to, an explanation of the mathematics of each unit and mathematical point of each lesson as it relates to the organizing concepts of		
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the unit and discussion on student ways of thinking and anticipating a variety of student responses.		
7d) Materials identify prerequisite skills and concepts for the major work of the grade/course, connected to the current on-grade/course-level work.	Yes	Materials identify prerequisite skills and concepts for the major work of the grade. In the Module Overview, margin notes titled, "Before This Module," provide prerequisite skills from previous grades or earlier in the current grade students need to be successful. As an additional purchase, the Eureka Math ² Equip provides tools that help identify and support students with unfinished learning. As part of Equip, the Pre-Module Assessment Overview lists essential foundational knowledge needed to access current grade-level content. For example, the Equip Module 1: Multiplication and Division with Units of 2, 3, 4, 5, and 10 Overview identifies essential foundational knowledge needed to access the content within Module 1 such as, "Count forward by ones, tens, and hundreds within 1,000, starting at any number." "Skip-count by fives." "Write a repeated addition equation to represent equal groups or an array, including writing an equation to express an even number as the sum of two equal addends." and "Represent equal groups of up to 5 groups of 5 objects by using manipulatives or drawings and apply an addition strategy (such as counting on, skip-counting, or doubles) to find the total number of objects." In

		Module 2 Refore This Module states "In
		grade 2, students describe and apply place
		grade 2, students describe and apply place
		numbers. They count and hundle ones
		tons, and hundrads up to 1,000. Students
		tens, and numbers up to 1,000. Students
		read and write numbers in standard, unit,
		and expanded forms and apply place value
		understanding to add and subtract two-
		and three-digit numbers by using a variety
		of strategies. Simplifying strategies consist
		of composing and decomposing tens and
		hundreds to make problems easier to
		compute mentally and developing various
		written methods to record student
		thinking. Students also estimate and
		measure length by using a variety of tools
		and units in the customary and metric
		systems of measurement. Grade 3 uses
		familiar place value concepts to expand
		student understanding of metric
		measurement of weight and liquid volume
		and to develop fluency in addition and
		subtraction within 1,000."
7e) Materials provide guidance to help teachers identify	Yes	Materials provide guidance to help
students who need prerequisite work to engage		teachers identify students who need
successfully in core instruction, on-grade/course-level		prerequisite work to engage successfully
work.		in core instruction. The Implementation
		Guide references that Pre-Module
		Assessments are available with Eureka
		Math Squared Equip to identify and
		support students' unfinished learning. The
		Pre-Assessments "focus on assessing
		foundational knowledge essential to the
		content of the upcoming lesson." The Pre-
		Module Assessment reports provide data
		to identify student-specific needs. The
		goal of the pre-assessment is to clearly

		identify which students need to engage in
		supporting content before, or during,
		grade-level instruction for each module.
7f) Materials provide targeted, aligned, prerequisite	Yes	Materials provide targeted, aligned,
work for the major work of the grade/course, directly		prerequisite work for the major work of
connected to specific lessons and units in the		the grade directly connected to specific
curriculum.		lessons and units in the curriculum. The
		materials include four Pre-Module
		Assessments that target foundational,
		prerequisite knowledge for the upcoming
		modules. The Pre-Module Assessments
		results used along with the Equip User
		Guide provide specific activities to provide
		timely remediation for the current
		module. Teachers are guided to analyze
		the results after a pre-assessment is
		administered. Each item in the Pre-
		Assessment corresponds to at least one
		Supporting Activity that can be used to
		meet the needs of students who require
		prerequisite work. The Equip User Guide
		provides information for the Supporting
		Activity that corresponds to each item in
		the Pre-Module assessment, such as
		explanations of why the knowledge is
		foundational to the module, when
		specifically in the module the knowledge
		will be needed, and where in the module
		there is lesson-embedded practice with
		the foundational knowledge. For example,
		for Modules 2 and 3, Item 1 of the Pre-
		Assessment references lessons that
		address foundational content, such as
		Grade 2, Module 1, Topic B, Lessons 6-8,
		and Grade 2, Module 1, Topic D, Lessons
		15-16. In addition, a Supporting Activity is
		·· ,

		content for the Pre-Assessment item. Further in the guide, materials provide explanations of why the knowledge is foundational to the module, when specifically in the module the knowledge will be needed, and where in the module there is lesson-embedded practice with the foundational knowledge.
	7g) Materials provide clear guidance and support for teachers about the structures that allow students to appropriately address unfinished learning using prerequisite work.	See EdReports for more information.

FINAL EVALUATION

Tier 1 ratings receive a "Yes" for all Non-negotiable Criteria and a "Yes" for each of the Additional Criteria of Superior Quality. *Tier 2 ratings* receive a "Yes" for all Non-negotiable Criteria, but at least one "No" for the Additional Criteria of Superior Quality. *Tier 3 ratings* receive a "No" for at least one of the Non-negotiable Criteria.

Compile the results for Sections I a	and II to make a final decision f	for the material under review.
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Section	Criteria	Yes/No	Final Justification/Comments
I: Non-negotiable Criteria of	1. Focus on Major Work	Yes	Materials devote a large majority of time to the major work of the grade. Materials spend minimal time on content outside of the appropriate grade level. In assessment materials, assessment components do not make students/teachers responsible for any topics before the grade in which they are introduced.
I: Non-negotiable Criteria of Superior Quality ⁵	2. Consistent, Coherent Content	Yes	Materials connect supporting content to major content in meaningful ways so that focus and coherence are enhanced throughout the year. Materials include problems and activities that connect two or more clusters in a domain and/or two or more domains in the grade level where these connections are natural and important.

⁵ Must score a "Yes" for all Non-negotiable Criteria to receive a Tier 1 or Tier 2 rating.

	3. Rigor and Balance	Yes	Materials develop conceptual understanding of key mathematical concepts, especially where called for explicitly in the standards. Materials are designed so that students attain the fluencies and procedural skills required by the standards. Materials are designed so that students spend sufficient time working with engaging applications. It is evident in the materials that the three aspects of rigor are not always treated together and are not always treated separately.
	4. Focus and Coherence via Practice Standards	Yes	Materials attend to the full meaning of each practice standard. Each practice standard is connected to grade-level content and is meaningfully present throughout the materials. Materials provide sufficient opportunities for students to construct viable arguments and critique the arguments of others concerning key grade-level mathematics that is detailed in the content standards. Materials explicitly attend to the specialized language of mathematics. Materials include teacher-directed materials that explain the role of the practice standards in the classroom and in students' mathematical development.
	5. Alignment Criteria for Standards for Mathematical Content		See EdReports for more information.
II: Additional Alignment Criteria and Indicators of Superior Quality ⁶	6. Quality of Assessments		See EdReports for more information.
	7. Additional Indicators of Quality		Materials identify prerequisite skills and concepts for the major work of the grade

⁶ Must score a "Yes" for all Additional Criteria of Superior Quality to receive a Tier 1 rating.

	when applicable. Materials provide guidance to help teachers identify students who need prerequisite work to engage successfully in core instruction. Materials provide targeted, aligned, prerequisite work for the major work of the grade directly connected to specific lessons and units in the curriculum.

FINAL DECISION FOR THIS MATERIAL: Tier 1, Exemplifies quality





Qualified for Abbreviated Review¹

FOCUS COHERENCE Focus strongly where the standards focus. COHERENCE Focus strongly where the standards focus strongly where the standards focus strongly where the standards focus strongly st

Title: Eureka Math²

Grade/Course: <u>4</u> Copyright: <u>2021</u>

Publisher: Great Minds PBC

Overall Rating: Tier 1, Exemplifies quality

Tier 1, Tier 2, Tier 3 Elements of this review:

Strong mathematics instruction contains the following elements:

STRONGWEAK1. Focus on Major Work (Non-negotiable).2. Consistent, Coherent Content (Non-negotiable).3. Rigor and Balance (Non-negotiable).4. Focus and Coherence via Practice Standards
(Non-negotiable).5. Alignment Criteria for Standards for
Mathematical Content.6. Quality of Assessments.7. Indicators of Quality.

¹ Abbreviated Reviews are conducted in K-12 ELA and K-12 Math for submissions that **Meet Expectations** for Gateways 1 and Gateway 2 through EdReports. Reviewers considered these reports as they reviewed materials for alignment to Louisiana state standards and quality Non-negotiable indicators. See the full EdReports review at <u>https://www.edreports.org/reports/overview/eureka-math2-2021</u>.





To evaluate instructional materials for alignment with the standards and determine tiered rating, begin with **Section I: Non-negotiable Criteria**.

- Review the **required**² Indicators of Superior Quality for each **Non-negotiable** criterion.
- If there is a "Yes" for all **required** Indicators of Superior Quality, materials receive a "Yes" for that **Non-negotiable** Criterion.
- If there is a "No" for any of the **required** Indicators of Superior Quality, materials receive a "No" for that **Non-negotiable** Criterion.
- Materials must meet **Non-negotiable** Criterion 1 and 2 for the review to continue to **Non-negotiable** Criteria 3 and 4. Materials must meet all of the **Non-negotiable** Criteria 1-4 in order for the review to continue to Section II.
- If materials receive a "No" for any **Non-negotiable** Criterion, a rating of Tier 3 is assigned, and the review does not continue.

If all Non-negotiable Criteria are met, then continue to Section II: Additional Criteria of Superior Quality.

- Review the **required** Indicators of Superior Quality for each criterion.
- If there is a "Yes" for all **required** Indicators of Superior Quality, then the materials receive a "Yes" for the additional criteria.
- If there is a "No" for any **required** Indicator of Superior Quality, then the materials receive a "No" for the additional criteria.

Tier 1 ratings receive a "Yes" for all Non-negotiable Criteria and a "Yes" for each of the Additional Criteria of Superior Quality.

Tier 2 ratings receive a "Yes" for all Non-negotiable Criteria, but at least one "No" for the Additional Criteria of Superior Quality.

Tier 3 ratings receive a "No" for at least one of the Non-negotiable Criteria.

² **Required Indicators of Superior Quality** are labeled "**Required**" and shaded yellow. Remaining indicators that are shaded white are included to provide additional information to aid in material selection and do not affect tiered rating.

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
Section I: Non-negotiable Criteria Non-negotiable Criteria 3 and 4. I	of Superior Quality: Materials must meet Non-negot Materials must meet all of the Non-negotiable Criteria	iable Criteria 1 a 1-4 in order fo	and 2 for the review to continue to or the review to continue to Section II.
Non-negotiable 1. FOCUS ON MAJOR WORK ³ : Students and teachers using the materials as designed devote the large majority ⁴ of time to the major work of the grade/course. Yes No	Required 1a) Materials devote the majority of class time to the major work of each grade/course.	Yes	Materials devote a large majority of time to the major work of the grade. Of the 144 instructional lessons, 76% are spent on major work of the grade. Specifically, 69% of lessons are spent on major standards, 8% of lessons are spent on a combination of major standards and supporting/additional standards, and 24% of lessons are spent on supporting or additional standards.
	Required 1b) Instructional materials, including assessments, spend minimal time on content outside of the appropriate grade/course during core math instruction. Content beyond grade/course-level should be clearly labeled as optional.	Yes	Materials spend minimal time on content outside of the appropriate grade level during core math instruction. In assessment materials, assessment components do not make students/teachers responsible for any topics before they are introduced. Lessons that address content outside of the grade level are clearly marked as optional. In addition, the materials include a Louisiana Teacher Alignment Guide that provides modifications to lessons, lesson components, and assessment items to ensure full alignment to the Louisiana Student Standards for Mathematics (LSSM). The guide indicates one lesson to omit completely since it addresses content outside of the grade level. In addition, the guide includes additional lessons to meet

³ For more on the major work of the grade, see Focus by Grade Level. ⁴ The materials should devote at least 65% and up to approximately 85% of class time to the major work of the grade with Grades K–2 nearer the upper end of that range, i.e., 85%.

			the full intent of the standards. For example, the Louisiana Teacher Alignment Guide for Grade 4 states to omit all versions of Module 2, Topic D, Quiz items 2 and 6 (LSSM 4.MD.D.8), along with all versions and all items of Module 4, Topic B Quiz. This specific assessment and aligned lessons (Lessons 8, 9, and 19) use fractions with denominators not included in the LSSM. In addition, the guide provides new items to align with LSSM 4.MD.D.8 for Benchmark 1, Session 2. In the Louisiana Teacher Alignment Guide for Module 5, Lesson 14 is labeled "omit" because the lessons call for learning outside of Grade 4 LSSM. In addition, Benchmark 3, Session 2 states to "omit item 7."
Non-negotiable 2. CONSISTENT, COHERENT CONTENT Each course's instructional materials are coherent and consistent with the content in the Standards. Yes No	Required 2a) Materials connect supporting content to major content in meaningful ways so that focus and coherence are enhanced throughout the year.	Yes	Materials connect supporting content to major content in meaningful ways so that focus and coherence are enhanced throughout the year. Materials are structured so that lessons that address major work precede lessons that address supporting work allowing major work of the grade to be applied and reinforced throughout the year. The Achievement Descriptors and Standards section located at the beginning of each lesson note the connections made among other standards within the lesson. For example, students first develop an understanding of multiplicative comparison in Module 1, Lessons 1-4. Then, in Module 1, Lesson 23, students express metric measurement of length in terms of smaller units, connecting supporting LSSM 4.MD.A.1 to

		major LSSM 4.OA.A.2 as students use
		multiplicative comparison language to
		describe the relative size of the units. In
		Module 2, Lesson 7, students draw and
		decompose an area model to multiply a
		two-digit number by a one-digit number,
		connecting supporting LSSM 4.MD.A.3 to
		major LSSM 4.NBT.B.5, which is first
		developed in Module 2, Lessons 1-6.
		During the lesson, students create a
		context to describe an additive
		comparison and a multiplicative
		comparison represented by a tape
		diagram, including solving problems of
		area and perimeter. Specifically in the
		Learn section of the lesson, the teacher
		asks, "How does showing the factors as
		the side lengths of a rectangle help you
		find the product of 3 and 12?" In Module
		4, Lesson 20, students subtract fractions
		by renaming 1 as a fraction and solve
		word problems connecting supporting
		LSSM 4.MD.A.2 to major LSSM 4.NF.B.3.a
		which was first developed in earlier
		lessons. For example, students solve,
		"Luke buys 15 pounds of rice. He uses 1/4
		pounds of rice. How many pounds of rice
		does Luke have left?"
Required	Yes	Materials include problems and activities
2b) Materials include problems and activities that serve		that connect two or more clusters in a
to connect two or more clusters in a domain , or two or		domain and/or two or more domains in
more domains in a grade/course , in cases where these		the grade level where these connections
connections are natural and important.		are natural and important. Various lessons
		throughout the materials include
		standards from multiple clusters and/or
		domains. Module 1, Lesson 6 connects the
		Operations and Algebraic Thinking (OA)

	and Number and Operations in Base Ten
	(NBT) domains in the Learn section of the
	lesson as students use multiplication on a
	place value chart. In the lesson, students
	write multiplication equations in unit form
	recording 10 x 1 one = 1 ten, then in
	standard form as 10 x 1 = 10. The process
	is repeated for each place value unit
	(LSSM 4.OA.A.1 and 4.NBT.A.1). Module 4,
	Lesson 28 connects the Measurement and
	Data (MD) and the Number and
	Operations-Fractions (NF) domains as
	students solve the following problem:
	"Ray bikes 4 4/10 km. Zara bikes 2 7/10
	km. How many more kilometers does Ray
	bike than Zara? How many kilometers do
	Ray and Zara bike together?" (LSSM
	4.MD.A.2 and 4.NF.B.3d). Module 4
	connects clusters A (Extend understanding
	of fraction equivalence and ordering) and
	B (Build fractions from unit fractions by
	applying and extending previous
	understanding of operations on whole
	numbers) of the Number and Operations -
	Fractions (NF) domain. The module begins
	with fraction decomposition and
	equivalence in Topic A, elevating cluster B
	(LSSM 4.NF.B.3a, 4.NF.B.3b). As the
	Module progresses, the students extend
	understanding of fraction equivalence as
	they decompose a fraction into smaller
	unit fractions, showing equivalence on
	number lines, in area models, or in
	equations as sums of smaller unit
	fractions. They also generate a
	multiplication sentence of those sums of
	smaller unit fractions. Students choose a

			method that is efficient for them in finding
			equivalent fractions as seen in Lesson 11
			as they prove that ¼ is equivalent to 3/12
			(LSSM 4.NF.A.1, 4.NF.A.2). Lessons 18 - 34
			of Module 4 bring students back to cluster
			B as they extend understanding of
			operations of whole numbers and apply
			that to adding and subtracting fractions
			and mixed numbers. Module 6 connects
			the Geometry (G) and Measurement and
			Data (MD) domains as students explore
			angle measurements and plane figures.
			Students are introduced to lines and
			angles in Topic A, identifying points, lines,
			and line segments of the Geometry
			domain (LSSM 4.G.A.1) prior to studying
			angle measurement in Topic B where they
			explore angles being 1/360 of a turn
			through a circle (LSSM 4.MD.C.5).
Non-negotiable	Required	Yes	Materials develop conceptual
3. RIGOR AND BALANCE:	3a) Attention to Conceptual Understanding: Materials		understanding of key mathematical
Each grade's instructional materials	develop conceptual understanding of key mathematical		concepts, especially where called for
reflect the balances in the	concepts, especially where called for explicitly in specific		explicitly in the standards. Throughout
Standards and help students meet	content standards or cluster headings by featuring high-		each of the modules, the materials
the Standards' rigorous	quality conceptual problems and discussion questions.		provide activities and discussion prompts
expectations, by helping students			to build conceptual understanding. At the
develop conceptual understanding,			end of the lessons, students demonstrate
procedural skill and fluency, and			an understanding of the concepts
application.			presented in the lesson. The materials
			align with the rigor expectations specified
			in the standards. Students develop the
			concepts through a combination of
			concrete, pictorial, and abstract
			experiences over time. Throughout the
			materials, students use visual models,
			multiple representations, and
			manipulatives to build conceptual

· · · · · · · · · · · · · · · · · · ·	
	understanding. For example, in Module 1,
	Lessons 1-3, students build understanding
	of interpreting multiplication equations as
	a comparison and represent verbal
	statements of multiplicative comparisons
	as multiplication equations (LSSM
	4.OA.A.1). In Lesson 1, students describe
	multiplication patterns by using times as
	many. In Lesson 3, multiplicative
	relationships are described using words
	and equations. For example, in the Learn
	section students solve "This week Casey
	runs 8 kilometers and Robin runs 40
	kilometers. How many times as far does
	Robin run as Casey?" Students draw a tape
	diagram to solve and answer using a
	written equation with units to represent
	the statement. In Module 3, students use
	a place value chart and an area model as
	an introduction to partial products before
	using the standard algorithm (vertical
	form) for procedural skill and fluency
	(LSSM 4.NBT.B.5). For instance, the Learn
	portion of Lesson 9 begins with students
	multiplying a 3-digit number by a 1-digit
	number on the place value chart while
	also writing the 3-digit number in
	expanded form, emphasizing unit
	language. This leads students into the
	work of partial products with the area
	model later in the same lesson, breaking
	apart 340 as 3 hundreds and 4 tens when
	multiplying by 5 ones. Conceptual
	Understanding is again highlighted in
	Module 4 as students engage with
	foundations for fraction operations (LSSM
	4.NF.B.3) prior to Module 5 which focuses



Required	Yes	Materials are designed so that students
3b) Attention to Procedural Skill and Fluency: The		attain the fluencies and procedural skills
materials are designed so that students attain the		required by the standards. Materials are
fluencies and procedural skills required by the content		designed so that students attain the
standards. Materials give attention throughout the year		fluencies and procedural skills required by
to individual standards that set an expectation of		the standards. Each lesson begins with
procedural skill and fluency. In grades K-6, materials		fluency practice to support a progression
provide repeated practice toward attainment of fluency		of learning over time throughout the
standards. In higher grades, sufficient practice with		course. Students have opportunities to
algebraic operations is provided in order for students to		develop procedural skills aligned with the
have the foundation for later work in algebra.		standards in the materials. According to
		the Implementation Guide, "Fluency
		provides distributed practice with
		previously learned material. It is designed
		to prepare students for new learning by
		activating prior knowledge and bridging
		small learning gaps. Fluency routines are
		developed over time to support students
		in counting and calculating as they are
		used consistently across lessons and
		include activities such as choral response,
		Whiteboard Exchange, and Sprint. The
		implementation guide provides guiding
		questions and suggestions for fluency
		implementation. Additionally, fluency is
		expected as an end-of-the-year
		performance expectation but can be
		achieved at various points throughout the
		year. For example, in the Fluency section
		of Module 2, Lesson 17, students count on
		a number line by 6 to find all factor pairs
		for a given whole number (LSSM
		4.OA.B.4a). In Module 4, Lesson 15,
		Fluency, students build fluency with
		decomposing fractions greater than 1 by
		determining the unknown addend and
		write an equation (LSSM 4.NF.A.1). In

	Module 1, Lessons 5 and 7-11, students
	write numbers to 1,000,000 in standard,
	expanded, and word form while also
	comparing larger numbers (LSSM
	4.NBT.A.2). In Lessons 16-22 of Module 1,
	students develop fluency with the
	standard algorithm of multi-digit whole
	number addition and subtraction (LSSM
	4.NBT.B.4). In Lesson 16, students use 5-
	group columns and 5-group rows to
	represent addition with place value disks
	as connected to the standard algorithm
	(vertical form). Students are introduced to
	regrouping on the line with new groups
	below instead of regrouping above the
	number in vertical form, further solidifying
	conceptual understanding as they build
	procedural skill. The use of place value
	disks is mirrored in Lesson 18 as students
	record multi-digit subtraction with the
	vertical form during the Learn portion of
	the lesson. Students are also provided
	small grids in their Problem Sets to ensure
	proper alignment as they practice multi-
	digit addition and subtraction. Students
	practice multiplying and dividing whole
	numbers in Modules 2 and 3 (LSSM
	4.NBT.B.5 and 4.NBT.B.6). Beginning in
	Module 2, students practice multiplying
	one-digit numbers by multiples of 10,
	preparing them for more challenging
	factors with familiar strategies in Topic B.
	This similar structure is used with division
	In Topic C across 6 lessons, allowing
	students ample opportunities for practice.
	Students extend this learning into Module
	3 as they explore multiplying and dividing

		into the thousands and record their work
		in the standard algorithm (vertical form)
		Another example of enhancing procedural
		skill and fluency shows up in Module 4
		Lesson 15 Eluency activity. Decompose
		Eractions (LSSM 4 NE A 1)
Descrived	Vec	Materials are designed so that students
Required	res	Materials are designed so that students
3c) Attention to Applications: Materials are designed so		spend sufficient time working with
that teachers and students spend sufficient time		engaging applications. The materials
working with engaging applications, including ample		provide practice with single- and multi-
practice with single-step and multi-step contextual		step contextual problems that develop the
problems, including non-routine problems, that develop		mathematics for the grade and engage
the mathematics of the grade/course, afford		students in problem solving. The
opportunities for practice, and engage students in		progression of the modules includes
problem solving. The problems attend thoroughly to		opportunities within the lessons to apply
those places in the content standards where		conceptual understanding and procedural
expectations for multi-step and real-world problems are		skills within the context of real-world
explicit.		problems. Students answer questions in
		pairs, small groups, and whole groups
		where they justify and explain their
		reasoning. LSSM 4.OA.A.2 is addressed
		throughout Module 1, Lessons 1-4. For
		example, in Lesson 3, students apply
		knowledge of multiplicative comparisons
		to solve the following problem: "This week
		Casy runs 8 kilometers and Robin runs 40
		kilometers. How many times as far does
		Robin run as Casey?" (LSSM 4.OA.A.2). In
		Module 2, Lesson 14, Launch, students
		solve multi-step word problems involving
		whole numbers. For example, students
		seek to distribute pencils equally among
		teachers and reason about how to do so
		with multiplication and division (LSSM
		4.0A.A.3). In Module 4. Lesson 21.
		students add and subtract fractions to
		solve the following problem: "Shen walks
		to solve the following problem: "This week Casy runs 8 kilometers and Robin runs 40 kilometers. How many times as far does Robin run as Casey?" (LSSM 4.OA.A.2). In Module 2, Lesson 14, Launch, students solve multi-step word problems involving whole numbers. For example, students seek to distribute pencils equally among teachers and reason about how to do so with multiplication and division (LSSM 4.OA.A.3). In Module 4, Lesson 21, students add and subtract fractions to solve the following problem: "Shen walks

		¼ mile in the morning and ⅔ miles in the afternoon. How many total miles does Shen walk?" (LSSM 4.NF.B.3d). Problem Sets also provide opportunities for students to engage in multi-step word problems as seen in Module 2, Lesson 20, item 8. Students calculate the area and perimeter with given side lengths or a missing side length. This is later applied again with multi-step problems in Module 6, Lesson 6 as students begin to apply their knowledge of area and perimeter with floor plans (LSSM 4.MD.A.3). When engaging with problems of this nature, students also provide justification or reasoning as in the case of Module 6, Lesson 7, Problem Set item 6, which states, "Carla says that ¾ and 6/8 of a 1 whole turn are the same angle. Do you agree? Use the circles to help explain your answer." (LSSM 4.MD.C.5a).
Required 3d) <i>Balance:</i> The three aspects of rigor are not always treated together and are not always treated separately.	Yes	It is evident in the materials that the three aspects of rigor are not always treated together and are not always treated separately. The materials reflect the balance of rigor in the standards. The structure of the materials help students develop the concepts and skills necessary to build and apply math knowledge. The Lessons are structured into sections titled Fluency, Launch, Learn, and Land. The three components of rigor are found within different sections of the lesson, and the lessons align with the expectations of rigor within each standard. Procedural skills and fluency appear in each lesson in the opening Fluency activity. The Fluency

	component enables students to develop
	fluency with skills from all clusters. The
	Launch and Learn components engage
	students in both concentual
	understanding and procedural skill and
	fluency. The Problem Set and Exit Ticket
	offer students the opportunity to
	independently apply their procedural skill
	and fluency, show their concentual
	and nuency, show their conceptual
	understanding, and solve applications
	such as word problems. In Land, students
	often engage in a discussion about their
	conceptual understanding of the student
	work. For example, in Module 1, Lesson
	17, students apply conceptual
	understanding as they engage in multi-
	step word problems, such as "On
	Saturday, 125,649 more packages were
	delivered than were delivered on Sunday.
	On Sunday, 293,848 packages were
	delivered. How many packages were
	delivered on both days combined?" (LSSM
	4.OA.A.3). Within Module 4, students
	begin working conceptually as they
	decompose fractions to find equivalence
	(LSSM 4.NF.A.1). They then move into
	more procedural skill and fluency as they
	practice generating equivalent fractions
	through Topic B. They continue to build
	understanding in Topic C as they compare
	fractions using benchmarks and related
	numerators or denominators (LSSM
	4.NF.A.2). In Module 5, Lesson 12,
	Problem Set, students begin with unit
	form of decimal fractions as they add
	(procedural skill and fluency), but then use
	models to show conceptual understanding

			of adding tenths and hundredths while
			solving item 15, "Miss Diaz walks 67/100
			kilometers to the library. Then she walks
			3/10 kilometers to the gym. How many
			kilometers does Miss Diaz walk
			altogether?" (LSSM 4.NF.C.5). In Module 6,
			Lesson 7, the Fluency section focuses on
			procedural skill and fluency as students
			add and subtract whole numbers (LSSM
			4.NBT.B.4). During the Learn section of
			Lesson 7, students build conceptual
			understanding as they observe a model of
			a fraction and consider its relationship to
			angles to understand equal partitioning
			and unit emphasis to understand angle
			and turn measure. Further in the lesson,
			students construct an angle maker and
			reason the number of fractional units
			needed to make one whole turn, then
			name the angle types. (LSSM 4.MD.C.5).
Non-negotiable	Required	Yes	Materials attend to the full meaning of
4. FOCUS AND COHERENCE VIA	4a) Materials attend to the full meaning of the practice		each practice standard. Each practice
PRACTICE STANDARDS:	standards. Each practice standard is connected to		standard is connected to grade-level
Aligned materials make meaningful	grade/course-level content in a meaningful way and is		content and is meaningfully present
and purposeful connections that	present throughout the year in assignments, activities,		throughout the materials. The materials
promote focus and coherence by	and/or problems.		support students' habits of mind based on
connecting practice standards with			the mathematical practices while also
content that is emphasized in the			building conceptual understanding,
Standards. Materials address the			developing fluency, and applying
practice standards in a way to			understanding. Margin notes in the
enrich and strengthen the focus of			teacher materials provide cues and
the content standards instead of			connections to the work of the students
detracting from them.			and the Standards for Mathematical
			Practice. Each lesson in the modules has a
			section titled, "Promoting the Standards
			for Mathematical Practice," which
			identifies the mathematical practice

	standards present in the lesson. This
	section also provides context of where
	Grade 4 students should be in the
	progression of the mathematical practices.
	For example, in Module 1, Lesson 11,
	students make sense of problems and
	persevere in problem solving (MP.1) as
	they determine the rule for a number
	pattern and use the rule to complete the
	pattern (LSSM 4.OA.C.5). Students answer
	the following questions as they make
	sense of problems and persevere in
	solving them: "What can you figure out
	about the rule by looking at what is given
	in the number pattern?" and "Does your
	rule make sense for the number pattern?
	If not, is there something else you can
	try?" In Module 2, Lesson 4, students use
	appropriate tools strategically (MP.5) as
	they choose a strategy and use what they
	know about multiplication and place value
	to solve 3 x 82 (LSSM 4.NBT.B.5). Students
	answer the following questions: "What
	kind of picture or diagram might help you
	find 82 x 3?" "Why did you choose your
	strategy?" and "Did the strategy work for
	you?" In Module 2, Lesson 9, students
	draw to represent a multiplicative
	comparison situation and then select a
	method to multiply, emphasizing the
	selection of appropriate tools strategically
	(MP.5). As students choose tools, they
	answer the following questions: "Why did
	you choose your method for finding 4 x
	75? Did that method work well for you?"
	In Module 3, Lesson 12, students attend to
	precision (MP.6) as they find a product by

Required	Yes	recording partial products with renaming units in vertical form (LSSM 4.NBT.B.5). Students answer the following questions as they attend to precision, "When finding 3 x 647 and recording partial products with renaming units in vertical form, what do you need to be extra careful with? Why?" and "Where might you make an error when finding a product and recording partial products with renaming units in vertical form?" In Module 3, Lesson 16, students look for and make use of structure (MP.7) as they multiply and record with two partial products in vertical form with regrouping in both partial products (LSSM 4.NBT.B.5). Students answer questions such as "How can what you know about multiplying single-digit numbers help you find 62 x 23?"
4b) Materials provide sufficient opportunities for students to construct viable arguments and critique the arguments of others concerning key grade/course-level mathematics that is detailed in the content standards (cf. MP.3). Materials engage students in problem solving as a form of argument, attending thoroughly to places in the standards that explicitly set expectations for multi- step problems.		for students to construct viable arguments and critique the arguments of others concerning key grade-level mathematics that is detailed in the content standards. The lessons are structured with opportunities for students to engage in mathematical reasoning through discussion questions and prompts. The materials provide opportunities for students to form viable arguments and critique the arguments of others throughout the lessons. Lessons also include several routines designed to promote discourse. For example, students determine a misconception in sample work and then construct viable arguments to convince the teacher of the correct

	solution path or solution. The materials
	also provide opportunities for students to
	conduct error analyses. In Module 4,
	Lesson 11, Launch, students observe and
	discuss a picture of two area models. By
	the end of the discussion, students reason
	that multiplication and division can
	represent decomposing and composing
	fraction units to find equivalent fractions.
	In Module 5, Lesson 6, students use place
	value understanding to identify
	hundredths as a place value unit. Teacher
	guidance states, "Fractional units are also
	place value units. Use the Always,
	Sometimes, Never routine to engage
	students in constructing meaning and
	discussing their ideas. Give students one
	minute of silent think time to evaluate
	whether the statement is always,
	sometimes, or never true. Have students
	discuss their thinking with a partner.
	Circulate and listen as they talk. Identify a
	few students to share their thinking." In
	Module 5, Lesson 11, students justify their
	answers when comparing decimal
	numbers as the teacher asks, "Is your
	answer a guess or do you know for sure?"
	"How do you know for sure?" and "Why
	does your strategy to compare decimal
	numbers work? Convince your partner." In
	Module 5, Lesson 14, Launch, students
	discuss strategies for adding mixed
	numbers and fractions as they engage in
	the routine of "Which One Doesn't
	Belong?" This routine is repeated
	throughout the materials, allowing
	students to critique their peers and

		engage in mathematical reasoning. In Module 6, Lesson 2, Launch, students find a category in which three of the figures belong, but the fourth does not. Students have two minutes to identify a category for the provided items. Once complete, the teacher invites students to explain their chosen categories and justify why one item would not fit into the category. Teachers are encouraged to ask questions that invite students to use precise language, make connections, and ask questions of their own.
Required 4c) Materials explicitly attend to the specialized language of mathematics.	Yes	Materials explicitly attend to the specialized language of mathematics. The materials use and encourage the use of accurate mathematical terminology as appropriate for the grade level. The Terminology Resource identifies the specialized language of mathematics that is used throughout a module. The resource lists New and Familiar terminology with definitions and descriptions from the module. Items in the New category are discipline-specific words that are introduced to students within the module. These items include the definition, description, or illustration as it is presented to students. Language Support margin notes embedded in the lessons provide guidance to teachers as they support students with the specialized language of mathematics. Each Module Overview and Module Assessment Description addresses the proper terminology for students to use as well as definitions for key terms. The sample

	dialogue in each lesson includes the
	torminology toochors should expect from
	their students when they answer
	their students when they answer
	questions or share their thinking. For
	example, Module 1, Lesson 5, introduces
	students to the New terms: ten thousand,
	hundred thousand, and million. During the
	Launch portion of the lesson, students
	engage in familiar concepts of bundling
	and renaming or exchanging as they move
	from the hundreds to the thousands unit,
	transferring this understanding to
	organizing a given set of various bills. As
	the lesson progresses, the teacher
	intentionally asks students to identify
	larger values with prompts like, "Can you
	tell us how you used the place value chart
	to organize your bills?" and "What do you
	think the relationship is between
	thousands and ten thousands?" Module 2
	defines the associative property of
	multiplication, composite number,
	distributive property, divisible, divisor,
	formula, partial product, partial quotient,
	prime number, and term (in a pattern) in
	the New Section. The terms area, area
	model, commutative property of
	multiplication, factor, foot, inch, length,
	multiple, perimeter, product, quotient,
	total, width, and yard are listed in the
	Familiar Section. Claim is listed in the
	Academic section. Within the Teaching
	Guide for Module 3, Lesson 6, a box titled
	Language Support is found in the Long
	Division and Vertical Form portion of the
	lesson. Guidance states, "Consider
	clarifying the use of the word long in the
	Division and Vertical Form portion of the lesson. Guidance states, "Consider clarifying the use of the word long in the

		term long division. Some students might
		hear the word long and make assumptions
		about long division based on their
		understanding of long in reference to time
		or length. Clarify that long division is a
		process we can use to divide when mental
		math is not efficient. Ask, 'Would you use
		long division to find 40 / 2? Why?'"
4d) There are teacher-directed materials that explain	Yes	Materials include teacher-directed
the role of the practice standards in the classroom and		materials that explain the role of the
in students' mathematical development.		practice standards in the classroom and in
		students' mathematical development. The
		materials provide a full explanation of the
		purpose and intent of the practice
		standards with in-lesson connections and
		context for instruction. Each lesson
		contains a section entitled "Promoting the
		Standards for Mathematical Practice" that
		links a specific practice standard to the
		content of the lesson. The section
		provides the context of the progression of
		the standard in the current grade level and
		in future learning. It provides a specific
		reference of the lesson activity that
		implements the practice standard. At the
		conclusion of each Module, when
		reviewing achievement descriptors and
		standards, mathematical practice
		standards are listed for each module.
		Within the Implementation Guide, the
		mathematical practices are explained and
		highlighted in the margin notes as they
		appear in specific lessons. Additionally, in
		the Implementation Guide, the grade level
		standards and practice standards are
		listed for educators as they are presented
		in all modules. In the section highlighting

	Lesson Facilitation, the guide describes
	effective delivery as "delivery that fosters
	student ownership and belonging. This
	curriculum supports this aspect by
	naturally presenting opportunities for
	students to practice the mathematical
	practice standards as they arise within the
	lessons." In Module 1, Lesson 10, the
	Promoting the Standards for
	Mathematical Practice states, "When
	students repeatedly rename a number in
	different ways they are looking for and
	expressing regularity in repeated
	reasoning (MP8). Ask the following
	questions to promote MP8: What is the
	same about your reasoning when you
	rename 905,438 in different ways? What
	patterns do you notice as you repeatedly
	rename 905,438 by using fewer units?"
	Later, in Lesson 12, guidance for the
	teacher states, "Students attend to
	precision (MP.6) as they regroup
	thousands to ten thousands when
	rounding to the nearest thousand. Ask the
	following questions to promote MP6:
	What details are important to think about
	when rounding 739,625 to the nearest
	thousand? Where might you make an
	error when rounding 739, 625 to the
	nearest thousand." Module 2, Lesson 10,
	promotes MP.5 as teachers are guided to
	probe students for their self-selected
	strategy for multiplication and explain
	their reasoning (using appropriate tools
	strategically).
Section II: Additional Alignment Criteria and Indicators of Superior Qu	Jality

5. ALIGNMENT CRITERIA FOR STANDARDS FOR MATHEMATICAL	Required 5a) Materials provide all students extensive work with	See EdR	eports for more information.
Materials foster focus and coherence by linking topics (across	Required 5b) Materials relate grade/course-level concepts		
grades/courses by staying consistent with the progressions in	explicitly to prior knowledge from earlier grades and courses. The materials are designed so that prior knowledge is extended to accommodate the new		
	knowledge, building to core instruction, on grade/course-level work. Lessons are appropriately structured and scaffolded to support student mastery.		
	Required 5c) There is variety in what students produce. For example, students are asked to produce answers and solutions, but also, in a grade/course-appropriate way, arguments and explanations, diagrams, mathematical		
	 Support for English Language Learners and other special populations is provided. The language in which problems are posed is not an obstacle to understanding the content, and if it is, additional supports (suggestions for modifications, "vocabulary to preview", etc.,) are included. 		
6. QUALITY OF ASSESSMENTS: Materials offer assessment opportunities that genuinely measure progress and elicit direct, observable evidence of the degree	Required 6a) Multiple assessment opportunities are embedded into content materials and measure student mastery of standards that reflect the balance of the standards as presented in materials.		
to which students can independently demonstrate the assessed grade-specific Louisiana Student Standards for Mathematics.	Required 6b) Assessment items include a combination of tasks that require students to demonstrate conceptual understanding, demonstrate procedural skill and fluency, and apply mathematical reasoning and modeling in real world context. Assessment items require students to produce answers and solutions, arguments, explanations, and models, in a grade/course- appropriate way.		

	6c) Scoring guidelines and rubrics align to standards,		
	incorporate criteria that are specific, observable, and		
	measurable, and provide sufficient guidance for		
	interpreting student performance, misconceptions, and		
	targeted support to engage in core instruction.		
	6d) Materials provide 2-3 comprehensive assessments		
	(interims/benchmarks) that measure student learning up		
	to the point of administration.		
7. ADDITIONAL INDICATORS OF	Required		
QUALITY:	7a) The content can be reasonably completed within a		
Materials are well organized and	regular school year and the pacing of content allows for		
provide teacher guidance for units	maximum student understanding. The materials provide		
and lessons.	guidance about the amount of time a task might		
	reasonably take.		
Materials provide timely supports	Required		
to target specific skills/concepts to	7b) The materials are easy to use and well organized		
address students' unfinished	for students and teachers. Teacher editions are concise		
learning in order to access grade-	and easy to manage with clear connections between		
level work.	teacher resources. Guidance is provided for lesson		
	planning and instructional delivery, lesson flow		
	questions to help prompt student thinking and		
	expected student outcomes		
	Required		
	7c) Materials include unit and lesson study tools for		
	teachers including but not limited to an explanation of		
	the mathematics of each unit and mathematical point of		
	each lesson as it relates to the organizing concents of		
	the unit and discussion on student ways of thinking and		
	anticipating a variety of student responses		
	7d) Materials identify prerequisite skills and concents	Ves	Materials identify prerequisite skills and
	for the major work of the grade/course connected to	163	concents for the major work of the grade
	the current on-grade/course-level work		In the Module Overview, margin potes
			titled "Refore This Medule" provide
			proroquisito skills from provious grades or
			prerequisite skins from previous grades of
			te he successful. As on a delitioned
			to be successful. As an additional
			purchase, the Eureka Math ² Equip provides

	tools that help identify and support
	students with unfinished learning. As part
	of Equip, the Pre-Module Assessment
	Overview lists essential foundational
	knowledge needed to access current
	grade-level content. For example, the
	Equip Module 1: Place Value Concepts for
	Addition and Subtraction Overview
	identifies essential foundational
	knowledge needed to access the content
	within Module 1 such as, "Write a three-
	digit number in unit form to show that
	each digit represents an amount of
	hundreds, tens, and ones and that the
	numbers 100, 200, 300, 400, 500, 600,
	700, 800, 900 refer to 1, 2, 3, 4, 5, 6, 7, 8,
	or 9 hundreds (0 tens 0 ones)." "Read and
	write numbers to 1,000 by using base ten
	numerals, word form, and expanded
	form." and "Compare 2 three-digit
	numbers by using >, =, and < symbols." As
	teachers begin the Launch section of
	Module 1, Lesson 1, the margin note
	states, "In grade 3, students use the term
	pattern to describe the relationship
	between numbers in input-output tables.
	In this lesson, pattern refers to a collection
	of figures that follow a rule. A rule
	describes the relationship between
	consecutive figures in the pattern." Later
	in the same lesson, another connection to
	a prerequisite skill is made in the teacher
	notes in the right margin: "In grade 3,
	students use a variation of brackets when
	drawing tape diagrams. This variation
	enables students to label the tape without
	the added complexity of drawing the

		brackets. In grade 4, students see tape diagrams labeled with brackets but continue to draw arms. Students may transition to brackets as they are ready."
7e) Materials provide guidance to help teachers identify students who need prerequisite work to engage successfully in core instruction, on-grade/course-level work.	Yes	Materials provide guidance to help teachers identify students who need prerequisite work to engage successfully in core instruction. The Implementation Guide references that Pre-Module Assessments are available with Eureka Math Squared Equip to identify and support students' unfinished learning. The Pre-Assessments "focus on assessing foundational knowledge essential to the content of the upcoming lesson." The Pre- Module Assessment reports provide data to identify student-specific needs. The goal of the pre-assessment is to clearly identify which students need to engage in supporting content before, or during, grade-level instruction for each module.
7f) Materials provide targeted , aligned , prerequisite work for the major work of the grade/course, directly connected to specific lessons and units in the curriculum.	Yes	Materials provide targeted, aligned, prerequisite work for the major work of the grade directly connected to specific lessons and units in the curriculum. The materials include four Pre-Module Assessments that target foundational, prerequisite knowledge for the upcoming modules. The Pre-Module Assessments results used along with the Equip User Guide provide specific activities to provide timely remediation for the current module. Teachers are guided to analyze the results after a pre-assessment is administered. Each item in the Pre- Assessment corresponds to at least one Supporting Activity that can be used to

	7g) Materials provide clear guidance and support for		meet the needs of students who require prerequisite work. The Equip User Guide provides information for the Supporting Activity that corresponds to each item in the Pre-Module assessment, such as explanations of why the knowledge is foundational to the module, when specifically in the module the knowledge will be needed, and where in the module there is lesson-embedded practice with the foundational knowledge. For example, for Module 1, Item 1 of the Pre- Assessment references lessons that address foundational content, such as Grade 2, Module 1, Topic E, Lesson 20 and Grade 2, Module 1, Topic F, Lesson 25. In addition, a Supporting Activity is provided that aligns with the foundation content for the Pre-Assessment item. Further in the Guide, materials provide explanations of why the knowledge is foundational to the module, when specifically in the module the knowledge will be needed, and where in the module there is lesson-embedded practice with the foundational knowledge.
	teachers about the structures that allow students to appropriately address unfinished learning using prerequisite work.		
FINAL EVALUATION Tier 1 ratings receive a "Yes" for all Non-negotiable Criteria and a "Yes" for each of the Additional Criteria of Superior Quality.			
<i>Tier 2 ratings</i> receive a "Yes" for all Non-negotiable Criteria, but at least one "No" for the Additional Criteria of Superior Quality.			
Ther stratings receive a not for at least one of the Non-negotiable Criteria.			
Compile the results for Sections I and	d II to make a final decision for the material under review.	N = = (2)	Final Instituation (Compared to 1
Section	Criteria	Yes/No	Final Justification/Comments

I: Non-negotiable Criteria of Superior Quality ⁵	1. Focus on Major Work	Yes	Materials devote a large majority of time to the major work of the grade. Materials spend minimal time on content outside of the appropriate grade level. In assessment materials, assessment components do not make students/teachers responsible for any topics before the grade in which they are introduced.
	2. Consistent, Coherent Content	Yes	Materials connect supporting content to major content in meaningful ways so that focus and coherence are enhanced throughout the year. Materials include problems and activities that connect two or more clusters in a domain and/or two or more domains in the grade level where these connections are natural and important.
	3. Rigor and Balance	Yes	Materials develop conceptual understanding of key mathematical concepts, especially where called for explicitly in the standards. Materials are designed so that students attain the fluencies and procedural skills required by the standards. Materials are designed so that students spend sufficient time working with engaging applications. It is evident in the materials that the three aspects of rigor are not always treated together and are not always treated separately.
	4. Focus and Coherence via Practice Standards	Yes	Materials attend to the full meaning of each practice standard. Each practice standard is connected to grade-level content and is meaningfully present throughout the materials. Materials

⁵ Must score a "Yes" for all Non-negotiable Criteria to receive a Tier 1 or Tier 2 rating.

		provide sufficient opportunities for students to construct viable arguments and critique the arguments of others concerning key grade-level mathematics that is detailed in the content standards. Materials explicitly attend to the specialized language of mathematics. Materials include teacher-directed materials that explain the role of the practice standards in the classroom and in students' mathematical development.
	5. Alignment Criteria for Standards for Mathematical Content	See EdReports for more information.
	6. Quality of Assessments	See EdReports for more information.
II: Additional Alignment Criteria and Indicators of Superior Quality ⁶	7. Additional Indicators of Quality	Materials identify prerequisite skills and concepts for the major work of the grade when applicable. Materials provide guidance to help teachers identify students who need prerequisite work to engage successfully in core instruction. Materials provide targeted, aligned, prerequisite work for the major work of the grade directly connected to specific lessons and units in the curriculum.
FINAL DECISION FOR THIS MATERIAL	: Tier 1, Exemplifies quality	

⁶ Must score a "Yes" for all Additional Criteria of Superior Quality to receive a Tier 1 rating.





Qualified for Abbreviated Review¹

FOCUS COHERENCE Focus strongly where the standards focus. COHERENCE Focus strongly where the standards focus strongly where the standards focus strongly where the standards focus strongly st

Title: Eureka Math²

Grade/Course: <u>5</u> Copyright: <u>2021</u>

Publisher: Great Minds PBC

Overall Rating: Tier 1, Exemplifies quality

Tier 1, Tier 2, Tier 3 Elements of this review:

Strong mathematics instruction contains the following elements:

STRONGWEAK1. Focus on Major Work (Non-negotiable).2. Consistent, Coherent Content (Non-negotiable).3. Rigor and Balance (Non-negotiable).4. Focus and Coherence via Practice Standards
(Non-negotiable).5. Alignment Criteria for Standards for
Mathematical Content.6. Quality of Assessments.7. Indicators of Quality.

¹ Abbreviated Reviews are conducted in K-12 ELA and K-12 Math for submissions that **Meet Expectations** for Gateways 1 and Gateway 2 through EdReports. Reviewers considered these reports as they reviewed materials for alignment to Louisiana state standards and quality Non-negotiable indicators. See the full EdReports review at <u>https://www.edreports.org/reports/overview/eureka-math2-2021</u>.




To evaluate instructional materials for alignment with the standards and determine tiered rating, begin with **Section I: Non-negotiable Criteria**.

- Review the **required**² Indicators of Superior Quality for each **Non-negotiable** criterion.
- If there is a "Yes" for all **required** Indicators of Superior Quality, materials receive a "Yes" for that **Non-negotiable** Criterion.
- If there is a "No" for any of the **required** Indicators of Superior Quality, materials receive a "No" for that **Non-negotiable** Criterion.
- Materials must meet **Non-negotiable** Criterion 1 and 2 for the review to continue to **Non-negotiable** Criteria 3 and 4. Materials must meet all of the **Non-negotiable** Criteria 1-4 in order for the review to continue to Section II.
- If materials receive a "No" for any **Non-negotiable** Criterion, a rating of Tier 3 is assigned, and the review does not continue.

If all Non-negotiable Criteria are met, then continue to Section II: Additional Criteria of Superior Quality.

- Review the **required** Indicators of Superior Quality for each criterion.
- If there is a "Yes" for all **required** Indicators of Superior Quality, then the materials receive a "Yes" for the additional criteria.
- If there is a "No" for any **required** Indicator of Superior Quality, then the materials receive a "No" for the additional criteria.

Tier 1 ratings receive a "Yes" for all Non-negotiable Criteria and a "Yes" for each of the Additional Criteria of Superior Quality.

Tier 2 ratings receive a "Yes" for all Non-negotiable Criteria, but at least one "No" for the Additional Criteria of Superior Quality.

Tier 3 ratings receive a "No" for at least one of the Non-negotiable Criteria.

² **Required Indicators of Superior Quality** are labeled "**Required**" and shaded yellow. Remaining indicators that are shaded white are included to provide additional information to aid in material selection and do not affect tiered rating.

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
Section I: Non-negotiable Criteria Non-negotiable Criteria 3 and 4. I	of Superior Quality: Materials must meet Non-negot Naterials must meet all of the Non-negotiable Criteria	iable Criteria 1 a 1-4 in order fo	and 2 for the review to continue to or the review to continue to Section II.
Non-negotiable 1. FOCUS ON MAJOR WORK ³ : Students and teachers using the materials as designed devote the large majority ⁴ of time to the major work of the grade/course. Yes	Required 1a) Materials devote the majority of class time to the major work of each grade/course.	Yes	Materials devote a large majority of time to the major work of the grade. Of the 137 lessons, 73% of instructional lessons are spent on major work of the grade. Specifically, 64% of lessons are spent on major standards, 9% of lessons are spent on a combination of major standards and supporting/additional standards, 25% of lessons are spent on supporting or additional standards, and 2% of lessons are labeled as optional.
	Required 1b) Instructional materials, including assessments, spend minimal time on content outside of the appropriate grade/course during core math instruction. Content beyond grade/course-level should be clearly labeled as optional.	Yes	Materials spend minimal time on content outside of the appropriate grade level during core math instruction. In assessment materials, assessment components do not make students/teachers responsible for any topics before they are introduced. Lessons that address content outside of the grade level are clearly marked as optional. In addition, the materials include a Louisiana Teacher Alignment Guide that provides modifications to lesson components to ensure full alignment to the Louisiana Student Standards for Mathematics (LSSM). For example, Module 6 includes 20 lessons, and two of the lessons are optional. Module 6, Lesson 10 is labeled as optional as it goes beyond the scope of

³ For more on the major work of the grade, see Focus by Grade Level. ⁴ The materials should devote at least 65% and up to approximately 85% of class time to the major work of the grade with Grades K–2 nearer the upper end of that range, i.e., 85%.

			the Grade 5 LSSM encompassing patterns
			in a coordinate system. In addition
			Module 6, Lesson 19, and Module 4
			Lesson 26 are labeled as optional, as well
			In the Louisiana Teacher Alignment Guide
			Module 1 Apply Lesson 15 guidance
			states to omit problem 4 in the Practice
			and problem 4 in the Practice Partner. For
			Module 3 Apply Lesson 5 guidance states
			to omit problem 11 in the Practice and
			problem 6 in the Practice Partner
Non-negotiable	Poquirod	Vos	Materials connect supporting content to
	(2a) Materials connect supporting content to major	165	materials connect supporting content to
CONTENT	content in meaningful ways so that focus and cohorence		focus and coherence are enhanced
Each course's instructional	are enhanced throughout the year		throughout the year. Materials are
materials are scherent and			structured so that lossons that address
consistent with the content in the			maior work proceeds lossons that address
Standards			inajor work precede lessons that address
Stanuarus.			the grade to be applied and reinforced
			the grade to be applied and reinforced
Yes No			Descriptors and Standards section leasted
			bescriptors and standards section located
			at the beginning of each lesson note the
			connections made among other standards
			within the lesson. For example, students
			FINE A 2 in Markula 2, Lessons 40, 44. This
			5.NF.A.2 IN MODULE 2, LESSONS 10-14. THIS
			understanding is applied in Module 2,
			Lesson 17. During the lesson, students
			make line plots to represent data sets in
			fractions of units, connecting supporting
			LSSM 5.MD.B.2 with major LSSM 5.NF.A.2
			as students solve word problems involving
			addition and subtraction of fractions and
			mixed numbers with unlike units. For
			example, in the Problem Set, students use
			a line plot that represents the weights of
			rice in containers. Students model the

		problem by shading how many pounds of rice are in each container, then answer "How many eighths are shaded altogether?" Students continue to build fraction concepts in Module 3, Lessons 1-4 as the lessons address LSSM 5.NF.B.4 and LSSM 5.NF.B.5. This knowledge is then applied in Lessons 5 and 6. During the lesson, students convert among units within the customary measurement system to solve problems connecting supporting LSSM 5.MD.A.1 to LSSM 5.NF.B.4 and 5.NF.B.5. Specifically in Lesson 5, students work to convert ³ / ₄ lb to ounces by multiplying the fraction ³ / ₄ to
		the whole number 16 (LSSM 5.NF.B.5 and 5.MD.A.1).
Required 2b) Materials include problems and activities that serve to connect two or more clusters in a domain, or two or more domains in a grade/course, in cases where these connections are natural and important.	Yes	Materials include problems and activities that connect two or more clusters in a domain and/or two or more domains in the grade level where these connections are natural and important. Various lessons throughout the materials include standards from multiple clusters and/or domains. Module 1, Lesson 7 connects the Number and Operations in Base Ten (NBT) and Operations and Algebraic Thinking (OA) domains. During the lesson, students multiply a five-digit factor by a one-digit factor (LSSM 5.NBT.B.5) using the distributive property (LSSM 5.OA.A.1). For example, students solve the problem "On a typical day, a grade 5 student takes 24,165 breaths in one day. How many breaths will you and 5 friends take in one day?" by distributing 5 to 20,000, 4,000, 100, 60 and 5. Module 4, Lesson 18,

			connects the major work of the Numbers
			and Base Ten Operations (NBT) domain
			with the Numbers and Operations of
			Fractions (NF) domain. The lesson's
			objective is to relate decimal-number
			multiplication (LSSM 5.NBT.B.7) to fraction
			multiplication (LSSM 5.NF.B.4). Within the
			Learn portion of the materials, the teacher
			notes, "We can use what we know about
			fraction multiplication to find 0.1 x 0.1.
			What is 0.1 renamed in fraction form?"
			Module 6, Lessons 7-9 connect the
			Operations and Algebraic Thinking (OA)
			domain with the Geometry (G) domain.
			For example, in Lesson 7 students use a
			starting number and a rule to generate the
			terms of a number pattern. They extend
			this understanding to the coordinate plane
			as they represent the number patterns in
			tables, form ordered pairs, and then graph
			the ordered pairs (LSSM 5.OA.B.3,
			5.G.A.2). For example, students use
			pattern A, add 2, and pattern B, add 3, to
			first complete the patterns and then
			generate ordered pairs. Students plot the
			ordered pairs on the coordinate plane and
			answer questions such as, "What patterns
			do you notice among the points plotted in
			the coordinate plane?" "How are the table
			and graph of two number patterns
			related?" and "How can what you know
			about two number patterns help you
			locate points on the graph that represent
			the patterns?"
Non-negotiable	Required	Yes	Materials develop conceptual
3. RIGOR AND BALANCE:	3a) Attention to Conceptual Understanding: Materials		understanding of key mathematical
	develop conceptual understanding of key mathematical		concepts, especially where called for

Each grade's instructional materials	concepts, especially where called for explicitly in specific	explicitly in the standards. Throughout
reflect the balances in the	content standards or cluster headings by featuring high-	each of the modules, the materials
Standards and help students meet	quality conceptual problems and discussion questions.	provide activities and discussion prompts
the Standards' rigorous		to build conceptual understanding. At the
expectations, by helping students		end of the lessons, students demonstrate
develop conceptual understanding,		an understanding of the concepts
procedural skill and fluency, and		presented in the lesson. The materials
application.		align with the rigor expectations specified
		in the standards. Students develop the
		concepts through a combination of
		concrete, pictorial, and abstract
		experiences over time. Throughout the
		materials, students use visual models,
		multiple representations, and
		manipulatives to build conceptual
		understanding. In Module 1, students
		build an understanding of generalizing
		place value relationships in any multi-digit
		number (LSSM 5.NBT.A.1). In Lesson 1,
		students compare the same digits in
		different places and describe the
		relationship between the numbers as 10
		times as much. In Lesson 2, students use
		the place value relationships to multiply
		and divide by 10 by 10. In the problem set,
		students solve "The 8 in 58,701 represents
		times as much as the 8 in 5,870. In
		Lesson 3, students extend these place
		value concepts as they transition into the
		conceptual understanding of expressing
		whole-number powers of 10 in
		exponential form, standard form, and as
		repeated multiplication (LSSM 5.NBT.A.2).
		This lesson introduces the terms
		exponent, exponential form and power of
		10. As students engage in the Launch
		portion of the lesson, they examine

	representations that show factors of 10
	and identify which of the four
	representations presented doesn't belong.
	Moving into the Learn portion, students
	use Powers of 10 charts as they explore
	the representation of multiplying and
	dividing by tens. With this chart, students
	exhibit understanding of a place value disk
	and its movement on a place value chart
	when multiplying or dividing by ten while
	also providing an equation and the aligned
	exponential form. In Module 3, students
	develop an understanding of
	multiplication of a fraction or whole
	number by a fraction as scaling. In Lesson
	1, students partition arrays into equal
	groups to find a unit fraction of a set. In
	Lessons 3 and 4, students multiply a whole
	number by a fraction to find the value of
	"5/4 of 7" (LSSM 5.NF.B.4). Students
	revisit conceptual understanding of cluster
	A of LSSM 5.NBT.A in Module 4, Lesson 2.
	Students model decimals to the
	thousandths place. During the Launch
	section, students observe four
	representations and identify how they are
	alike and how they are different. As they
	move into the Learn section of the same
	lesson, students represent decimal
	numbers to the thousandths place by
	using area models. Students explain how
	they use the area model to show
	thousandths. Students answer conceptual
	questions such as "What number does the
	area modelrepresent? How do you
	know? What does this tell you about the
	number? How do you know?"

Required	Yes	Materials are designed so that students
3b) Attention to Procedural Skill and Fluency: The		attain the fluencies and procedural skills
materials are designed so that students attain the		required by the standards. Materials are
fluencies and procedural skills required by the content		designed so that students attain the
standards. Materials give attention throughout the year		fluencies and procedural skills required by
to individual standards that set an expectation of		the standards. Each lesson begins with
procedural skill and fluency. In grades K-6, materials		fluency practice to support a progression
provide repeated practice toward attainment of fluency		of learning over time throughout the
standards. In higher grades, sufficient practice with		course. Students have opportunities to
algebraic operations is provided in order for students to		develop procedural skills aligned with the
have the foundation for later work in algebra.		standards in the materials. According to
C C		the Implementation Guide, "Fluency
		provides distributed practice with
		previously learned material. It is designed
		to prepare students for new learning by
		activating prior knowledge and bridging
		small learning gaps. Fluency routines are
		developed over time to support students
		in counting and calculating as they are
		used consistently across lessons and
		include activities such as choral response,
		Whiteboard Exchange, and Sprint. The
		implementation guide provides guiding
		questions and suggestions for fluency
		implementation. Additionally, fluency is
		expected as an end-of-the-year
		performance expectation but can be
		achieved at various points throughout the
		year. Students are provided multiple
		opportunities to support multi-digit
		multiplication fluency. Within Module 1,
		Lessons 7-11, students use the standard
		algorithm to multiply multi-digit numbers
		(LSSM 5.NBT.B.5). This fluency is
		scaffolded in the lessons. For example, in
		Lesson 7, students solve "4 times as much
		as 32,157" using strategies such as

		distributive, area model, and partial
		products. In Lesson 9, students multiply
		two- and three-digit numbers by two-digit
		numbers using the area model and relate
		the model to the standard algorithm. In
		Lesson 8, students engage in a daily
		Fluency activity of estimating products.
		For example, the teacher displays 19.352 x
		$3 \approx x 3$, and students approximate a
		factor of 20.000 for an estimated product
		of 60.000. Eluency activities such as this
		evident in Module 1. Topic B prepares
		students for work with the standard
		algorithm of multi-digit multiplication as
		seen in Lessons 10 and 11 In Lesson 11
		students use the standard algorithm of
		multiplication to solve "What number is
		111 times as much as 2 2222" To maintain
		this fluoney, students ongogo in fluoney
		activities that are embedded in future
		Activities that are embedded in future
		Lasson For example in Medule 2 Lasson
		Lesson. For example, in Module 2, Lesson
		8, students independently demonstrate
		understanding of multiplying multi-digit
		whole numbers using the standard
		algorithm in problems such as 3,212 x 3. In
		Module 5, Lesson 22, students determine
		how many centimeter cubes are in 1 layer
		to find the volume of a right rectangular
		prism in the Fluency portion of the lesson
		(LSSM 5.MD.C.4).
Required	Yes	Materials are designed so that students
3c) Attention to Applications: Materials are designed so		spend sufficient time working with
that teachers and students spend sufficient time		engaging applications. The materials
working with engaging applications, including ample		provide practice with single- and multi-
practice with single-step and multi-step contextual		step contextual problems that develop the
problems, including non-routine problems, that develop		mathematics for the grade and engage



		brownies. How many gift bags can the family make?" (LSSM 5.NF.B.7c). In Module 5, Lesson 24, students independently solve non-routine word problems involving volumes of right rectangular prisms in the Exit Ticket, such as the following problem: "A right rectangular prism has a volume of 450 cubic centimeters. What is one possible length, width, and height for the prism?" (LSSM 5.MD.C.5). Routine real-world problems addressing LSSM 5.MD.C.5 are also evident in Module 5, Lesson 26 as students solve problems such as "A pool is shaped like an L (with a diagram shown). A dog walks around the border of the pool. How far does the dog walk?"
Required 3d) <i>Balance:</i> The three aspects of rigor are not always treated together and are not always treated separately.	Yes	It is evident in the materials that the three aspects of rigor are not always treated together and are not always treated separately. The materials reflect the balance of rigor in the standards. The structure of the materials help students develop the concepts and skills necessary to build and apply math knowledge. The Lessons are structured into sections titled Fluency, Launch, Learn, and Land. The three components of rigor are found within different sections of the lesson, and the lessons align with the expectations of rigor within each standard. Procedural skills and fluency appear in each lesson in the opening Fluency activity. The Fluency component enables students to develop fluency with skills from all clusters. The Launch and Learn components engage students in both conceptual

	understanding and procedural skill and
	fluency. The Problem Set and Exit Ticket
	offer students the opportunity to
	independently apply their procedural skill
	and fluency, show their conceptual
	understanding, and solve applications
	such as word problems. In Land, students
	often engage in a discussion about their
	conceptual understanding of the student
	work. For example, in Module 3, Lesson 5,
	Fluency, Multiply Multi-Digit Whole
	Numbers, students write and complete a
	given equation by using the standard
	algorithm - 15 x 23 = (5.NBT.B.5). In
	Module 4, Lesson 14, Fluency, students
	multiply a decimal number by a power of
	10 (LSSM 5.NBT.A.2). Within Lesson 14,
	conceptual understanding of multiplying
	decimals is built as students use a place
	value chart to multiply a decimal number
	by a one-digit whole number then record
	their work in vertical form. The teacher is
	prompted to ask "Where do you see the
	regrouping in vertical form?" prompting a
	discussion to compare the place value
	chart to the standard algorithm (LSSM
	5.NBT.B.7). In Module 6, Lesson 8,
	Fluency, students find the volume of right
	rectangular prisms (LSSM 5.MD.C.5a). In
	the Learn portion of the lesson, students
	use addition rules to generate
	coordinates, form ordered pairs, and plot
	the points on the coordinate plane.
	Students build conceptual understanding
	as they connect the relationship between
	two patterns and graphing data on a
	coordinate plane (LSSM 5.OA.B.3). In

			Module 5, Lesson 11, Classwork Problem
			1, students identify the area of rectangles
			by partitioning a given rectangle and
			finding its side lengths (LSSM 5.NF.B.4).
Non-negotiable	Required	Yes	Materials attend to the full meaning of
4. FOCUS AND COHERENCE VIA	4a) Materials attend to the full meaning of the practice		each practice standard. Each practice
PRACTICE STANDARDS:	standards. Each practice standard is connected to		standard is connected to grade-level
Aligned materials make meaningful	grade/course-level content in a meaningful way and is		content and is meaningfully present
and purposeful connections that	present throughout the year in assignments, activities,		throughout the materials. The materials
promote focus and coherence by	and/or problems.		support students' habits of mind based on
connecting practice standards with			the mathematical practices while also
content that is emphasized in the			building conceptual understanding,
Standards. Materials address the			developing fluency, and applying
practice standards in a way to			understanding. Margin notes in the
enrich and strengthen the focus of			teacher materials provide cues and
the content standards instead of			connections to the work of the students
detracting from them.			and the Standards for Mathematical
			Practice. Each lesson in the modules has a
Yes No			section titled, "Promoting the Standards
			for Mathematical Practice," which
			identifies the mathematical practice
			standards present in the lesson. This
			section also provides context of where
			Grade 5 students should be in the
			progression of the mathematical practices.
			For example, in Module 2, Lesson 4,
			students make sense of problems and
			persevere in solving them (MP.1) as they
			interpret and solve real-world problems
			involving the division of whole numbers
			and work with fractions and mixed
			numbers (LSSM 5.NF.B.3). Students
			answer the following questions as they
			work through the problem: "What can you
			figure out about the situation in the
			problem by looking at the tape diagram?"
			"Does your answer make sense? Why?"

		and "How can you explain the problem in
		your own words?" In Module 3, Lesson 16,
		students look for and make use of
		structure (MP.7) as they compare the
		values of multiplication and division
		expressions. Students answer questions
		such as: "How are $\frac{1}{2}$ divided by 4 and $\frac{1}{4}$
		divided by 4 related?" "How can that help
		you compare the values of the
		expressions?" and "How can what you
		know about 1/2 and 1/4 help you compare
		the values of 1/2 divided by 4 and 1/4 divided
		by 4?" In Module 1, Lesson 9, students
		attend to precision as they decompose
		factors and find partial products when
		they multiply multi-digit numbers using
		the standard multiplication algorithm.
		Students answer questions such as: "How
		can you write the partial products when
		you use the standard algorithm?" and
		"Where might you make mistakes when
		you use the standard algorithm?" (LSSM
		5.NBT.B.5). In Module 4, Lesson 8,
		students engage in MP.3 as they round
		numbers to the given place with a partner
		and ask for explanations of their peer if
		the answer provided does not seem to be
		correct. Students answer questions such
		as: "Is your answer a guess, or do you
		know for sure?" "If you know for sure,
		explain your reasoning." and "What
		questions can you ask your partner to
		make sure you understand their
		reasoning?"
Required	Yes	Materials provide sufficient opportunities
4b) Materials provide sufficient opportunities for		for students to construct viable arguments
students to construct viable arguments and critique the		and critique the arguments of others



		rules for coordinates of points in a table
		on a graph?" "How did you find the y
		coordinate in problem 1?" and "Why is it
		useful to know when x and y coordinates
		have an addition or subtraction
		relationship?" In Module 2, Lesson 16,
		students turn and talk about whether the
		claim that most of the pumpkins sold
		weighed more than 12 ¼ pounds is true
		based on the data in the given line plot.
		Students then answer the question,
		"Which parts of Mr. Sharma's claim do you
		question?" In Module 3, Lesson 8,
		students reason about the size of a
		product compared to the size of its factors
		as they multiply two fractions less than 1.
		Students respond to the question, "What
		questions can you ask your partner to
		make sure you understand their
		reasoning?" As students learn about the
		hierarchy of quadrilaterals in Module 5.
		Lesson 3, they justify their thinking and
		respond to their peers' thoughts during
		the Always Sometimes Never Routine by
		answering, "Can you find a situation
		where the statement is not true?" and
		"What questions can you ask your
		classmate to make sure you understand
		their thinking?"
Required	Yes	Materials explicitly attend to the
4c) Materials explicitly attend to the specialized		specialized language of mathematics. The
language of mathematics.		materials use and encourage the use of
		accurate mathematical terminology as
		appropriate for the grade level. The
		Terminology Resource identifies the
		specialized language of mathematics that
		is used throughout a module. The
Required 4c) Materials explicitly attend to the specialized language of mathematics.	Yes	respond to their peers' thoughts during the Always Sometimes Never Routine by answering, "Can you find a situation where the statement is not true?" and "What questions can you ask your classmate to make sure you understand their thinking?" Materials explicitly attend to the specialized language of mathematics. The materials use and encourage the use of accurate mathematical terminology as appropriate for the grade level. The Terminology Resource identifies the specialized language of mathematics that is used throughout a module. The

	resource lists New and Familiar
	terminology with definitions and
	descriptions from the module. Items in the
	New category are discipline-specific words
	that are introduced to students within the
	module. These items include the
	definition, description, or illustration as it
	is presented to students. Language
	Support margin notes embedded in the
	lessons provide guidance to teachers as
	they support students with the specialized
	language of mathematics. Each Module
	Overview and Module Assessment
	Description addresses the proper
	terminology for students to use as well as
	definitions for key terms. The sample
	dialogue in each lesson includes the
	terminology teachers should expect from
	their students when they answer
	questions or share their thinking. For
	example, Module 1 defines centigram,
	centiliter, dividend, exponent, exponential
	form, kiloliter, milligram, millimeter, and
	power of 10 in the New section. The terms
	centimeter, convert, distributive property,
	divisor, express, factor, kilogram, partial
	products, partial quotients, quotient,
	remainder, and standard algorithm are
	listed in the Familiar section. Analyze,
	consider, and evaluate are listed in the
	Academic Verbs section. Within the
	Teaching Guide for Module 5, Lesson 4, a
	box titled Teacher Note is found in the
	Construct a Rhombus section of the
	lesson. In the box, it states, "The plural
	forms of the word rhombus are
	rhombuses, which is the form used here,

		and rhombi, which is also correct. "Further
		in the lesson, another box titled Language
		Support: states, "If you created a
		quadrilaterals chart in previous lessons,
		consider reviewing familiar terms (parallel
		sides, supplementary angles, midpoint,
		right angles, and lines of symmetry) while
		gesturing to the appropriate visuals before
		beginning the discussion encouraging
		students to associate the word with the
		model." Module 2 lists minuend and
		subtrahend as New terminology in Lesson
		12. Within Lesson 12, the teacher states,
		"Let's decompose the minuend, or the
		starting value, 5." This gives students
		meaning of their new term without giving
		an explicit definition, but rather, using
		context of a given problem of 5 - 2 ¾. The
		teacher goes on with, "The subtrahend, or
		the number being subtracted from the
		starting value" again providing context
		for students. The teacher encourages
		students to describe the subtraction
		expression using their new mathematical
		vocabulary as they attend to precision. In
		Module 4, Lesson 29, as students explore
		comparing two expressions, they learn the
		New term inequality. The teacher then
		directs students to label number
		sentences for Station 7 of the Learning as
		an equation or inequality.
4d) There are teacher-directed materials that explain	Yes	Materials include teacher-directed
the role of the practice standards in the classroom and		materials that explain the role of the
in students' mathematical development.		practice standards in the classroom and in
		students' mathematical development. The
		materials provide a full explanation of the
		purpose and intent of the practice

	standards with in-lesson connections and
	context for instruction. Each lesson
	contains a section entitled "Promoting the
	Standards for Mathematical Practice" that
	links a specific practice standard to the
	content of the lesson. The section
	provides the context of the progression of
	the standard in the current grade level and
	in future learning. It provides a specific
	reference of the lesson activity that
	implements the practice standard. At the
	conclusion of each Module, when
	reviewing achievement descriptors and
	standards, mathematical practice
	standards are listed for each module.
	Within the Implementation Guide, the
	mathematical practices are explained and
	highlighted in the margin notes as they
	appear in specific lessons. Additionally, in
	the Implementation Guide, the grade level
	standards and practice standards are
	listed for educators as they are presented
	in all modules. In the section highlighting
	Lesson Facilitation, the guide describes
	effective delivery as "delivery that fosters
	student ownership and belonging. This
	curriculum supports this aspect by
	naturally presenting opportunities for
	students to practice the mathematical
	practice standards as they arise within the
	lessons." In Module 1, Lesson 18 the
	Promoting the Standards for
	Mathematical Practice states, "Students
	reason abstractly and quantitatively as
	they write word problems that match tape
	diagrams and numerical expressions
	(MP2). Ask the following questions to

Section II: Additional Alignment (Criteria and Indicators of Superior Quality	promote MP2: What real-world situations are modeled by the tape diagram? What do the parentheses in the expression tell you about your word problem?" In Module 1, Lesson 15, the Promoting the Standards for Mathematical Practice states, "When students use the Read- Draw-Write process to create models to represent word problems and demonstrate methods for multiplication and division to solve the word problems, they are modeling with mathematics (MP4). Ask the following questions to promote MP4: What key ideas in this problem do you need to include in your model? How do you represent the key ideas in this problem in your model? How can you improve your model to better represent the problem?"
5. ALIGNMENT CRITERIA FOR	Required	See EdReports for more information.
STANDARDS FOR MATHEMATICAL	5a) Materials provide all students extensive work with	
CONTENT:	grade/course-level problems.	
Materials foster focus and	Required	
coherence by linking topics (across	5b) Materials relate grade/course-level concepts	
domains and clusters) and across	explicitly to prior knowledge from earlier grades and	
consistent with the progressions in	courses. The materials are designed so that prior	
the Standards	knowledge is extended to accommodate the new	
	knowledge, building to core instruction, on	
	structured and scaffolded to support student mastery	
	Required	
	5c) There is variety in what students produce. For	
	example, students are asked to produce answers and	
	solutions, but also, in a grade/course-appropriate way,	
	arguments and explanations, diagrams, mathematical	
	models, etc.	

	5d) Support for English Language Learners and other special populations is provided. The language in which problems are posed is not an obstacle to understanding the content, and if it is, additional supports (suggestions for modifications, "vocabulary to preview", etc.,) are included.	
Materials offer assessment	6a) Multiple assessment opportunities are embedded	
opportunities that genuinely	into content materials and measure student mastery of	
measure progress and elicit direct,	standards that reflect the balance of the standards as	
observable evidence of the degree	presented in materials.	
to which students can	Required	
assessed grade-specific Louisiana	6b) Assessment items include a combination of tasks	
Student Standards for	that require students to demonstrate conceptual	
Mathematics.	understanding, demonstrate procedural skill and	
	modeling in real world context. Assessment items	
Yes No	require students to produce answers and solutions.	
	arguments, explanations, and models, in a grade/course-	
	appropriate way.	
	6c) Scoring guidelines and rubrics align to standards,	
	incorporate criteria that are specific, observable, and	
	measurable, and provide sufficient guidance for	
	interpreting student performance, misconceptions, and	
	targeted support to engage in core instruction.	
	6d) Materials provide 2-3 comprehensive assessments	
	(Interims/benchmarks) that measure student learning up	
	Required	
OUALITY:	7a) The content can be reasonably completed within a	
Materials are well organized and	regular school year and the pacing of content allows for	
provide teacher guidance for units	maximum student understanding. The materials provide	
and lessons.	guidance about the amount of time a task might	
	reasonably take.	
Materials provide timely supports	Required	
to target specific skills/concepts to	7b) The materials are easy to use and well organized	
address students' unfinished	for students and teachers. Teacher editions are concise	

learning in order to access grade- level work.	and easy to manage with clear connections between teacher resources. Guidance is provided for lesson planning and instructional delivery, lesson flow, questions to help prompt student thinking, and expected student outcomes. Required 7c) Materials include unit and lesson study tools for teachers , including, but not limited to, an explanation of the mathematics of each unit and mathematical point of each lesson as it relates to the organizing concepts of the unit and discussion on student ways of thinking and anticipating a variety of student responses.		
	for the major work of the grade/course, connected to the current on-grade/course-level work.	res	In the Module Overview, margin notes titled, "Before This Module," provide prerequisite skills from previous grades or earlier in the current grade students need to be successful. As an additional purchase, the Eureka Math ² Equip provides tools that help identify and support students with unfinished learning. As part of Equip, the Pre-Module Assessment Overview lists essential foundational knowledge needed to access current grade-level content. For example, the Equip Module 1: Place Value Concepts for Multiplication and Division with Whole Numbers identifies essential foundational knowledge needed to access the content within Module 1 such as, "Explain the relationship between a digit in a multi- digit whole number and the same digit in the place to the right." "Read and write multi-digit whole numbers in unit, standard, word, and expanded form." "Add and subtract multi-digit whole

		numbers by using the standard
		algorithm." and "Add and subtract multi-
		digit whole numbers by using the standard
		algorithm." In Module 3, Before This
		Module states, "In grade 4, module 4,
		students decompose a non-unit fraction as
		a sum of unit fractions and then write the
		sum as a product of a whole number times
		a unit fraction. They solve word problems
		involving multiplication of a fraction by a
		whole number and express answers as
		fractions and mixed numbers." In Module
		5. Lesson 7. the Language Support Box
		states. "Students classify triangles in grade
		4. Activate prior knowledge about
		triangles by reviewing types of triangles.
		with visuals of each type, before
		nresenting the triangle Venn diagram Δ
		right triangle is a triangle that has a right
		angle An acute triangle is a triangle that
		has all acute angles. An obtuse triangle is a
		triangle that has an obtuse angle. An
		isosceles triangle is a triangle with at least
		2 sides of equal length. Note that an
		2 sides of equal length. Note that all
		triangle. An equilatoral triangle is a
		triangle. All equilateral triangle is a
7a) Materials provide guidenes to help teachers identify	Vac	triangle with all sides of equal length.
7e) Materials provide guidance to help teachers identify	res	toochars identify students who need
successfully in core instruction, on grade (course level		reachers identify students who need
successfully in core instruction, on-grade/course-level		in core instruction. The Implementation
WOTK.		In core instruction. The implementation
		Accessments are available with Events
		Assessments are available with Eureka
		iviath Squared Equip to Identify and
		Support students unfinished learning. The
		Pre-Assessments "Tocus on assessing
		foundational knowledge essential to the

		content of the upcoming lesson." The Pre-
		Module Assessment reports provide data
		to identify student-specific needs. The
		goal of the pre-assessment is to clearly
		identify which students need to engage in
		supporting content before, or during,
		grade-level instruction for each module.
7f) Materials provide targeted, aligned, prerequisite	Yes	Materials provide targeted, aligned,
work for the major work of the grade/course, directly		prerequisite work for the major work of
connected to specific lessons and units in the		the grade directly connected to specific
curriculum.		lessons and units in the curriculum. The
		materials include four Pre-Module
		Assessments that target foundational,
		prerequisite knowledge for the upcoming
		modules. The Pre-Module Assessments
		results used along with the Equip User
		Guide provide specific activities to provide
		timely remediation for the current
		module. Teachers are guided to analyze
		the results after a pre-assessment is
		administered. Each item in the Pre-
		Assessment corresponds to at least one
		Supporting Activity that can be used to
		meet the needs of students who require
		prerequisite work. The Equip User Guide
		provides information for the Supporting
		Activity that corresponds to each item in
		the Pre-Module assessment, such as
		explanations of why the knowledge is
		foundational to the module when
		specifically in the module the knowledge
		will be needed, and where in the module
		there is lesson-embedded practice with
		the foundational knowledge For example
		for Module 1 Item 1 of the Pre-
		Assessment references lessons that
		address foundational content, such as
		audiess ioundational content, such as

			Grade 4, Module 1, Topic B, Lesson 6. In addition, a Supporting Activity is provided that aligns with the foundation content for the Pre-Assessment item. Further in the guide, materials provide explanations of why the knowledge is foundational to the module, when specifically in the module the knowledge will be needed, and where in the module there is lesson-embedded practice with the foundational knowledge.
	7g) Materials provide clear guidance and support for teachers about the structures that allow students to appropriately address unfinished learning using prerequisite work.		See EdReports for more information.
FINAL EVALUATION <i>Tier 1 ratings</i> receive a "Yes" for all <i>Tier 2 ratings</i> receive a "Yes" for all <i>Tier 3 ratings</i> receive a "No" for at le	Non-negotiable Criteria and a "Yes" for each of the Addition Non-negotiable Criteria, but at least one "No" for the Additic east one of the Non-negotiable Criteria.	al Criteria of Su onal Criteria of	perior Quality. Superior Quality.
Compile the results for Sections I a	Ind II to make a final decision for the material under review.	Ves/No	Final Justification/Comments
		Yes	Materials devote a large majority of time to the major work of the grade. Materials
I: Non-negotiable Criteria of	1. Focus on Major Work		spend minimal time on content outside of the appropriate grade level. In assessment materials, assessment components do not make students/teachers responsible for any topics before the grade in which they are introduced.

⁵ Must score a "Yes" for all Non-negotiable Criteria to receive a Tier 1 or Tier 2 rating.

			these connections are natural and
			important.
	3. Rigor and Balance	Yes	Materials develop conceptual understanding of key mathematical concepts, especially where called for explicitly in the standards. Materials are designed so that students attain the fluencies and procedural skills required by the standards. Materials are designed so that students spend sufficient time working with engaging applications. It is evident in the materials that the three aspects of rigor are not always treated together and are not always treated separately.
	4. Focus and Coherence via Practice Standards	Yes	Materials attend to the full meaning of each practice standard. Each practice standard is connected to grade-level content and is meaningfully present throughout the materials. Materials provide sufficient opportunities for students to construct viable arguments and critique the arguments of others concerning key grade-level mathematics that is detailed in the content standards. Materials explicitly attend to the specialized language of mathematics. Materials include teacher-directed materials that explain the role of the practice standards in the classroom and in students' mathematical development.
II: Additional Alignment Criteria	5. Alignment Criteria for Standards for Mathematical Content		See EdReports for more information.
and Indicators of Superior Quality ⁶	6. Quality of Assessments		See EdReports for more information.

⁶ Must score a "Yes" for all Additional Criteria of Superior Quality to receive a Tier 1 rating.

	7. Additional Indicators of Quality	Materials identify prerequisite skills and concepts for the major work of the grade when applicable. Materials provide guidance to help teachers identify students who need prerequisite work to engage successfully in core instruction. Materials provide targeted, aligned, prerequisite work for the major work of the grade directly connected to specific lessons and units in the curriculum.
FINAL DECISION FOR THIS MATERIAL: <u>Tier 1, Exemplifies quality</u>		



Instructional materials are one of the most important tools educators use in the classroom to enhance student learning. It is critical that they fully align to state standards—what students are expected to learn and be able to do at the end of each grade level or course—and are high quality if they are to provide meaningful instructional support.

The Louisiana Department of Education is committed to ensuring that every student has access to high-quality instructional materials. In Louisiana all districts are able to purchase instructional materials that are best for their local communities since those closest to students are best positioned to decide which instructional materials are appropriate for their district and classrooms. To support local school districts in making their own local, high-quality decisions, the Louisiana Department of Education leads online reviews of instructional materials.

Instructional materials are reviewed by a committee of Louisiana educators. Teacher Leader Advisors (TLAs) are a group of exceptional educators from across Louisiana who play an influential role in raising expectations for students and supporting the success of teachers. Teacher Leader Advisors use their robust knowledge of teaching and learning to review instructional materials.

The <u>2021-2022 Teacher Leader Advisors</u> are selected from across the state and represent the following parishes and school systems: Acadia, Ascension, Baton Rouge Diocese, Beauregard, Bossier, Calcasieu, Central Community, City of Monroe, Desoto, East Baton Rouge, East Feliciana, Evangeline, Franklin, Iberia, Jefferson, Lafayette, Lafourche, Lincoln, Livingston, Louisiana Tech University, Louisiana Virtual Charter Academy, Orleans, Ouachita, Rapides, Regina Coeli Child Development Center, Richland, Special School District, St. Charles, St. John, St. Landry, St. Martin, St. Mary, St. Tammany, Tangipahoa, Terrebonne, University View Academy, Vermillion, West Baton Rouge, and West Feliciana. This review represents the work of current classroom teachers with experience in grades K-5.

Appendix I.

Publisher Response

The publisher had no response.

Appendix II.

Public Comments

There were no public comments submitted.