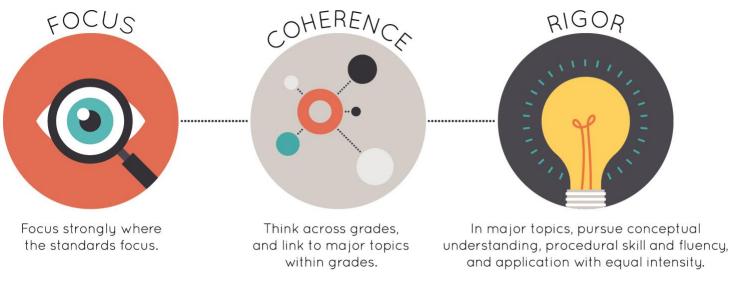


Instructional Materials Evaluation Review for Alignment in Mathematics Grades K – 12 (IMET)



Strong mathematics instruction contains the following elements:



Title: Illustrative Math

Grade/Course: 6-8

Copyright: 2020

Publisher: McGraw-Hill Education

Overall Rating: Tier I, Exemplifies quality

Tier I, Tier II, Tier III 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)	
4. Focus Coh. via Practice Std (Non-Negotiable)	
5. Alignment Criteria for Stnds. for Math Content	
6. Alignment Criteria for Stnds. for Math Practice	
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 6 (Tier 1)

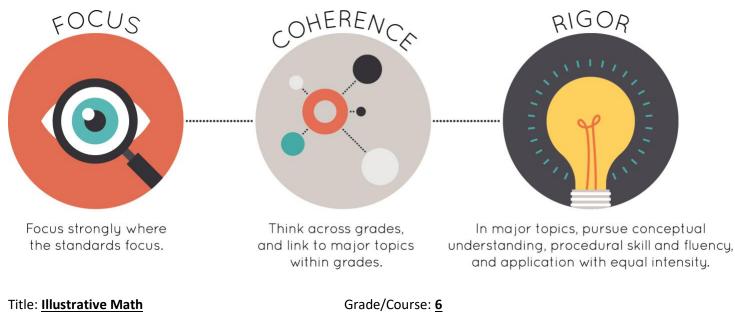
Grade 7 (Tier 1)

Grade 8 (Tier 1)





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5. Alignment Criteria for Stnds. for Math Content	
6. Alignment Criteria for Stnds. for Math Practice	
7. Indicators of Quality	

To evaluate each set of submitted materials for alignment with the Standards, begin by reviewing the indicators listed in Column 2 for the non-negotiable criteria in Section I. If there is a "Yes" for all indicators in Column 2 for Section I, then the materials receive a "Yes" in Column 1. If there is a "No" for any indicator in Column 2 for Section I, then the materials receive a "No" in Column 1.

For Section II, begin by reviewing the required indicators in Column 2 for each criterion. If there is a "Yes" for all required indicators in Column 2, then the materials receive a "Yes" in Column 1. If there is a "No" for any required indicators in Column 2, then the materials receive a "No" in Column 1.

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 (Criteria 1 - 4), but at least one "No" in Column 1 for the remaining criteria.

Tier 3 ratings receive a "No" in Column 1 for at least one of the non-negotiable criteria.

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
SECTION I: NON-NEGOTIABLE CRI	TERIA: Submissions must meet all of the non-negotial	ble criteria in c	order for the review to continue.
Non-Negotiable1. FOCUS ON MAJOR WORK1:Students and teachers using the materials as designed devote the large majority2 of time to the major work of the grade/course.Yes	REQUIRED 1a) Materials should devote the large majority of class time to the major work of each grade/course. Each grade/course must meet the criterion; do not average across two or more grades.	Yes	The number of lessons devoted to major work of the grade, which includes assessments and supporting work, is 88 out of 131 total (including all lessons that are not optional and removes Unit 8, Lessons 11 and 12, "Mean Absolute Deviation" which are LSSM optional). This means that approximately 67.1% of the time is spent on major work of the grade. The number of days dedicated to major work, which includes assessments and supporting work, is 102 out of 153 days. This means that approximately 66.7% of the time is spent on major work of the grade.
	REQUIRED 1b) In any one grade/course, instructional materials should spend minimal time on content outside of the appropriate grade/course. Previous grade/course content should be used only for scaffolding instruction. In assessment materials, there are no chapter tests, unit tests, or other such assessment components that make students or teachers responsible for any topics before the grade/course in which they are introduced in the Standards.	Yes	The materials spend minimal time on content outside the scope of sixth grade. When material goes beyond the scope of the national standards, it is noted as "optional" (e.g., Unit 9). Furthermore, all of the activities and practice problems where students are required to perform calculations and have an understanding of mean absolute deviation are optional or can be used for enrichment purposes (e.g., Unit 8, Lessons 12 and 13 are optional/ enrichment for LSSM and Unit 8, Lesson 10 Activity 3 is optional/ enrichment for LSSM). All optional/ enrichment lessons are listed in the LA- specific curriculum map.
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	The materials are structured to enhance focus and coherence throughout the year by connecting supporting content to major content in meaningful ways. Unit 1, Lessons 5 and 6 connect Supporting LSSM 6.G.A.1 to Major LSSM 6.EE.A.2c , where students evaluate expressions at specific values for variables (6.EE.A.2c) found within the formulas for calculating the area of geometrical figures (6.G.A.1). Unit 3, Lesson 17 connects supporting content (6.G.A) to major content (6.RP.A) as students apply their knowledge of rates, ratios, and proportions to a real-world scenario pertaining to painting a room. Unit 4, Lesson 17 connects Supporting LSSM 6.G.A.2

¹ For more on the major work of the grade, see Focus by Grade Level. ² 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%.

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
			to Major LSSM 6.NS.A.1 to as students "use multiplication and division of fractions to reason about real-world volume problems."
	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	The materials include problems and activities that connect two or more clusters in a domain, or two or more domains in the grade, in cases where these connections are natural and important. Unit 1, Lesson 18 connects LSSM 6.EE.A.1, 6.EE.A.2a, and 6.G.A.4 through instruction that is aligned to the learning goals which states, "Use units with exponents for surface area and volume. Calculate the surface area and volume of a cube given its edge length." Unit 4, Lesson 14 connects LSSM 6.NS.A.1, 6.G.A.1, and 6.G.A.2 by having students "Use multiplication and division to solve problems involving fractional areas and lengths in triangles." Unit 5, Lesson 13 connects the Expressions and Equations domain to the Number Sense domain as students fluently divide decimals (6.NS.B.3) to determine equivalent expressions (6.EE.A.4).
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 amply featuring high-quality conceptual problems and discussion questions.	Yes	The materials enhance the development of conceptual understanding of key mathematical concepts, especially where called for explicitly in specific content standards. Lessons within each unit are built in a way to address pre-requisite standards in the "Building On" and "Building Towards" sections of the lesson. These are followed by lessons labeled as "Addressing" specific content standards. This is evident in Unit 3, Lesson 5, Activity 1 where the materials build on LSSM 5.NF.B.3, "Interpret a fraction as division of the numerator by the denominator. Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers." This concept is connected to the grade-level standard of focus, LSSM 6.RP.A.2 "Understand the concept of a unit rate a/b associated with a ratio a:b with b \neq 0, and use rate language in the context of a ratio relationship" in Unit 3, Lesson 5, Activity 2, to establish prior knowledge and build conceptual understanding of unit rates.
	REQUIRED	Yes	The materials enhance the development of

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
	 3b) Attention to Procedural Skill and Fluency: The materials are designed so that students attain the fluencies and procedural skills required by the Standards. Materials give attention throughout the year to individual standards that set an expectation of procedural skill and fluency. In grades K-6, materials provide repeated practice toward attainment of fluency standards. In higher grades, sufficient practice with algebraic operations is provided in order for students to have the foundation for later work in algebra. 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	procedural skill and fluency of key mathematical concepts, especially where called for in the LSSM. Major LSSM 6.NS.B.2 states that students should "Fluently divide multi-digit numbers using the standard algorithm." In Unit 5, Lesson 10, Activity 2, Question 2, students use long division to solve the given problems. Major LSSM 6.EE.A.2c is also explicitly aligned to the procedural skill and fluency component of rigor. The content materials provided address this through supplemental Unit 1 Practice Problems where students are given additional problems to enhance fluency of evaluating expressions at specific values of variables. The materials provide students with opportunities to practice the application of key mathematical concepts, especially where explicitly called for in the standards. Unit 1, Lesson 19, "Designing a Tent," emphasizes LSSM focused on application (6.G.A.1 and 6.G.A.4), as students determine the amount of fabric needed to create a tent by calculating the surface area of the individual shapes that form the tent. In Unit 4, Lesson 17, students work through a series of tasks that focuses on finding the most economical shipping box combination. This application task focuses on Major LSSM 6.NS.A.1 and Supporting LSSM 6.G.A.2 and requires students to find measurements, determine the orientation of the box, how many jewelry boxes can fit in a shipping box, the cost of shipping, and provides further questions to reflect on student learning and extend application of the sixth grade content standards. Major LSSM 6.E.B.7 is highlighted in the Cool Down section of Unit 6, Lesson 4. Students create a scenario that matches the given equation, define the variable, and solve the equation.
	REQUIRED 3d) <i>Balance:</i> The three aspects of rigor are not always treated together and are not always treated separately.	Yes	The three aspects of rigor are not always treated together and are not always treated separately within the course materials. Unit 4 focuses on Major LSSM 6.NS.A.1 to "Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
Non-Negotiable 4. FOCUS AND COHERENCE VIA PRACTICE STANDARDS: Materials promote focus and coherence by connecting practice standards with content that is emphasized in the Standards. Yes No	REQUIRED 4a) Materials address the practice standards in such a way as to enrich the content standards of the grade/course; practices strengthen the focus on the content standards instead of detracting from them, in both teacher and student materials.	Yes	problem," which is aligned to all three components of rigor. The course materials address the development of conceptual understanding by allowing students to make sense of and define the meaning of fraction division in the first nine lessons of the unit. Lessons 10 and 11 move students towards development of the standard algorithm of fraction division, followed by application of this concept through the use of multiplication and division of fractions to solve geometric problems in Lessons 12 through 15. A culminating activity is then presented to students in Lesson 16 to address the alignments of 6.NS.A.1 to all three components of rigor, as defined by the LSSM. The materials address the practice standards in such a way as to enrich the content standards. In the Course Guide, examples of the mathematical practices implemented within the units are listed. In Unit 1, students use MP.1 as they "select appropriate tools and use them strategically to solve problems." In Unit 7, students use MP.2 as they "interpret and graph solutions in contexts." Mathematical Practices are also noted in the lessons within the curriculum. Unit 1, Lesson 18 states that "students practice using exponents of 2 and 3 to express products and to write square and cubic units. Along the way, they look for and make use of structure in numerical expressions (MP.7). They also look for and express regularity in repeated reasoning (MP.8) to write the formula for the surface area of a cube." Unit 3, Lesson 16 states that students will "develop a general structurethat will work for any numbers" (MP.7).
	ENT CRITERIA AND INDICATORS OF QUALITY		
Additional Criterion 5. ALIGNMENT CRITERIA FOR STANDARDS FOR MATHEMATICAL CONTENT: Materials foster focus and coherence by linking topics (across	REQUIRED 5a) Materials provide all students extensive work with course-level problems. Review of material from previous grades and courses is clearly identified as such to the teacher, and teachers and students can see what their specific responsibility is for the current year.	Yes	Extensive work with course level material is present throughout the curriculum. Each unit includes a Unit Overview, Lessons, Summary, Practice Problems, Assessments, Unit Downloads, and Family Support Materials. Lessons include a warm-up, activity/activities, lesson synthesis, and cool-down (glossary featured when needed) to build and reinforce student learning. Specific responsibilities

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
domains and clusters) and across grades/courses by staying			for teachers and students in regards to the current year expectations are clearly identified.
consistent with the progressions in the Standards.	REQUIRED 5b) Materials relate course-level concepts explicitly to prior knowledge from earlier grades and courses. The materials are designed so that prior knowledge becomes reorganized and extended to accommodate the new knowledge.	Yes	Reorganization of prior knowledge from previous grades is explicitly related to course-level concepts in a manner that extends and accommodates new knowledge throughout the materials. Each unit has a diagnostic assessment that is composed of questions from previous grade levels that assist teachers in determining gaps or misconceptions before introducing the students to new information. For example, Problem 3 of Unit 3 Diagnostic Assessment focuses on the accurate division of integers into decimal format (5.NBT.B.7) in preparation for the calculation of unit rates and percentages (6.RP.A.2, 6.RP.A.3C). Lessons also provide explicit alignment to mathematical standards, whether on grade level or to establish or build on prior knowledge. Evidence of this is found in the Warm-Up of Unit 1, Lesson 1, which is stated as aligned to "Building On: 3.G.A, Reason with shapes and their attributes." Unit 4, Lesson 4, states the Warm-Up is aligned to "Building On: 5.NF.B.7, Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions," and to 5.NF.B.4, "Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction."
	5c) Materials include learning objectives that are visibly shaped by LSSM cluster headings and/or standards.	Yes	Learning objectives align directly to LSSM cluster headings. Within the Course Guide for teachers, each lesson includes both teacher facing and student facing Student Learning Goals and Learning Targets. The Learning Goals align directly to the standard of focus for each lesson. Unit 6, Lesson 9 lists "Apply the distributive property with addition and subtraction to generate equivalent expressions," and "Represent the distributive property with side lengths and areas of rectangles and use the diagrams to write equivalent expressions" as the learning targets. This lesson directly aligns to LSSM 6.EE.A.3, "Apply the properties of operations to generate equivalent

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			expressions,' and 6.EE.A.4, "Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them)." The third learning goal for Unit 7, Lesson 6 states the following: "Use absolute value notation to describe magnitude. Understand the absolute value of a rational number as its distance from 0 on the number line." This goal aligns to 6.NS.C.7c, "Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation."
Additional Criterion 6. ALIGNMENT CRITERIA FOR STANDARDS FOR MATHEMATICAL PRACTICE: Aligned materials make meaningful and purposeful connections that enhance the focus and coherence of the Standards rather than detract from the focus and include additional content/skills to teach	 REQUIRED 6a) Materials attend to the full meaning of each practice standard. Over the course of any given year of instruction, each mathematical practice standard is meaningfully present in the form of assignments, activities, or problems that stimulate students to develop the habits of mind described in the practice standard. Alignments to practice standards are accurate. 	Yes	The materials attend to the full meaning of each practice standard. The Course Guide provides teachers with a reference to where specific mathematical practice standards will occur within each unit. In the Unit 6 description, it is stated that students "evaluate such expressions, using properties of exponents strategically (MP.5)." The mathematical practice standards are also evident in the individual lessons. For example, in Unit 3, Lesson 9, the following is stated regarding finding and using unit rates: "Students gain fluency working with unit rates without scaffolding (MP.1)."
which are not included in the Standards.	REQUIRED 6b) 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 (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	The materials provide sufficient opportunities for students to construct viable arguments and critique the arguments of others concerning key grade-level mathematics, especially in the problem-solving of multi-step problems. Problem 5 of Unit 4, End-Unit Assessment requires students to analyze another student's tape diagram and solution to 3 divided by two-thirds. Then, the student determines if they agree or disagree and explain their reasoning. Additionally, students are asked to determine a student's long division mistake then correct the error in the optional activity of Unit 5, Lesson 10. Unit 7, Lesson 9, provides multiple activities and problems where students critique other students' reasoning, such as, Question 2 of the Warm-Up, where students use their knowledge of comparing integers to determine if multiple methods can be

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	6c) There are teacher-directed materials that explain the role of the practice standards in the classroom and in students' mathematical development.	No	used to create an inequality, and Questions 2 and 3 of the Student Facing Task in Lesson 9, Activity 2. While the math practice standards are referenced throughout the lessons, there are no teacher- directed materials that explain the role of the practice standards in the classroom and in students' mathematical development.
	6d) Materials explicitly attend to the specialized language of mathematics.	Yes	The materials explicitly attend to development and concentration on mathematical language. Teacher questioning practices are used alongside direct instruction techniques to guide students to decipher the meaning of specific mathematical terms. Evidence of language support is present in the Warm-Up of Unit 2, Lesson 1, as students form a formal definition of the term ratio. This is also evident in Unit 7, Lesson 16, where students develop a definition of common factor and greatest common factor.
Additional Criterion 7. INDICATORS OF QUALITY: Quality materials should exhibit the indicators outlined here in order to give teachers and students the tools they need to meet the expectations of the Standards. Yes No	REQUIRED 7a) There is variety in what students produce. For example, students are asked to produce answers and solutions, but also, in a grade-appropriate way, arguments and explanations, diagrams, mathematical models, etc.	Yes	There is variety in what students produce. Throughout the materials, there are opportunities for students to solve mathematical problems, critique arguments of others and defend their own reasoning, create models, etc. Unit 2, Lesson 2, Activity 3, gives students the option to represent ratios as diagrams, use symbols, equivalent ratios, or verbal descriptions. The Student Facing Task in this activity provides students the opportunity to select correct answers in a multiple select type question to describe ratio relationships. The assessment provided for Unit 2 also allows for variety in what students produce by providing multiple-select, multiple choice, constructed response, and modeling questions. On Unit 3, Lesson 6, Practice Problems worksheet, students must produce multiple answer types. Question 1 requires students to complete a table, Question 2 is a short answer application problem, and Question 3 requires students to critique the given statements and defend their reasoning. Additionally, in Problem 1 of Unit 8, End-Unit Assessment, students choose each correct answer in a multiple-select format.
	REQUIRED	Yes	There are separate teacher materials that support

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	7b) There are separate teacher materials that support and reward teacher study including, but not limited to: discussion of the mathematics of the units and the mathematical point of each lesson as it relates to the organizing concepts of the unit, discussion on student ways of thinking and anticipating a variety of student responses, guidance on lesson flow, guidance on questions that prompt students thinking, and discussion of desired mathematical behaviors being elicited among students.		and reward teacher study. The Course Guide provides teachers with various tools that are designed to prepare them for the instruction of the curriculum. The Course Information and Scope and Sequence portion feature a pacing guide, detailed analysis of the content within each unit, scope and sequence, lessons and standards of the materials, glossary, and required materials needed. The guide begins with a brief overview of the materials, Design Principles, Principles for Mathematics Teacher and Learning, and the flow of Typical Lesson. The Design Principles provide key information on how the learning should take place from the development of conceptual understanding and procedural fluency to the ability to solve apply such knowledge. The How to Use These Materials section provides teachers with the sequence of a lesson from the launch to the assessments. The Supporting English Language Learners and Supporting Students with Disabilities features a variety of principles that are used to aid these students in reaching mathematical success.
	7c) Support for English Language Learners and other special populations is thoughtful and helps those students meet the same standards as all other students. The language in which problems are posed is carefully considered.	Yes	Support for English Language Learners and other special populations is present and provides opportunity for those groups to meet the same standards as other students. The Supporting English Language Learners portion features the following topics to aid teachers: Promoting Language and Content Development, Theory of Action, and the Framework of the Four Design Principles for Promoting Mathematical Language Use and the Eight Mathematical Language Routines. These guiding principles and routines can also be found throughout the individual lessons to enhance instruction where recommendations are given to assist the mastery of the topic for students as needed. Each lesson with these components is clearly labeled as "Support for English Language Learners."
	7d) The underlying design of the materials distinguishes between problems and exercises. In essence, the difference is that in solving problems, students learn new mathematics, whereas in working exercises,	Yes	The underlying design of the materials distinguishes between problems and exercises. The Warm-Up and Activity portion of each lesson features detailed problems that provide students with guided

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	students apply what they have already learned to build mastery. Each problem or exercise has a purpose.		instruction to form connections from previously learned material to the new skill. Each lesson also provides a Practice Problems document. Students apply their newly gained knowledge to complete the given exercises. For example, Unit 3, Lesson 4, Activity 1 focuses on student use of computational skills and conceptual understanding to use ratio reasoning to convert measurement (LSSM 6.RP.A.3d). Additional practice, directly aligned to this concept, is found within the Practice Problems section of the curriculum materials.
	7e) Lessons are appropriately structured and scaffolded to support student mastery.	Yes	Lessons are appropriately structured and scaffolded to support student mastery. Each unit, from the student's view, includes scaffolded Lessons, Summary, and Practice Problems. The teacher materials provide detailed instruction to appropriately scaffold content, as well as, Family Materials to provide supplemental resources at home. Lessons, from the teacher view, includes a warm-up, activity, lesson synthesis, cool down and glossary section, where needed, to scaffold instruction. Within these components, alignment to prior and on grade level LSSM, learning goals and targets, required preparation and materials, and instructional routines are included. The Cool-Down is the formative assessment portion that teachers use to determine if the students understood the daily lesson. When needed, the glossary defines key terms needed to understand the lesson. The Summary section serves as a closing to ensure objective goals were met. The Practice Problems section provides students with ample conceptual, procedural, and application problems to master the targeted LSSM. The Assessment is a summative closure to test student mastery.
	7f) Materials support the uses of technology as called for in the Standards.	Yes	While there are no standards that specifically address the use of technology in sixth grade, students are exposed to virtual manipulatives and digital tasks within some of the lessons. For example, Unit 1, Lesson 12, Activity 3 supports instruction using an applet to build rectangular prisms using virtual cubes. This is used in order for

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			students to visualize and explore the surface area of different sized rectangular prisms in order to conceptualize the meaning of a net of 3 dimensional figures (LSSM 6.G.A.4). Unit 5, Lesson 2, Activity 2 has a digital task that requires students to use an applet to model decimals using base ten blocks. Unit 7, Lesson 3, Activity 3 provides a digital task that requires students to use an applet to plot positive and negative rational numbers on a number line.

FINAL EVALUATION

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 (Criteria 1 - 4), but at least one "No" in Column 1 for the remaining criteria. *Tier 3 ratings* receive a "No" in Column 1 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.

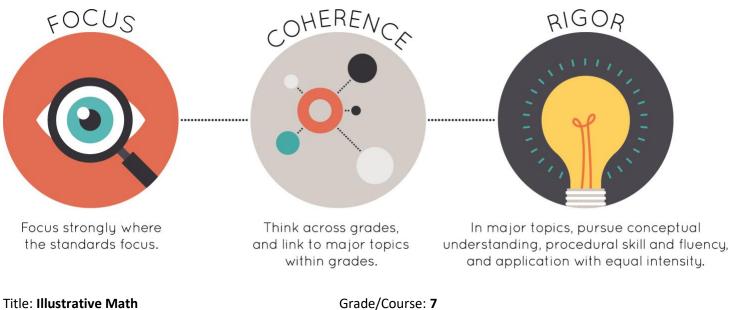
Section	Criteria	Yes/No	Final Justification/Comments
I: Non-Negotiables	1. Focus on Major Work	Yes	The materials devote a majority of time to the major work of the grade, and a LA-specific curriculum map ensures teachers know the boundaries within which to teach and assess.
	2. Consistent, Coherent Content	Yes	Focus and coherence are enhanced throughout the curriculum through connections between supporting and major LSSM, as well as, the connection made between different domains and sub-claims.
	3. Rigor and Balance	Yes	The three aspects of rigor are not always treated together or separately within the curriculum resources provided.
	4. Focus and Coherence via Practice Standards	Yes	Materials use the practice standards to strengthen and enrich the focus of the content standards for the grade.
	5. Alignment Criteria for Standards for Mathematical Content	Yes	Materials attend to focus and coherence by linking topics and by staying consistent with the progression of the LSSM.
II: Additional Alignment Criteria and Indicators of Quality	6. Alignment Criteria for Standards for Mathematical Practice	Yes	Materials attend to the full meaning of the practice standards and provide sufficient opportunities for students to construct and critique arguments as well as attend to multi-step problems. However, no teacher directed materials were found to explain the role of the practice standards in either the classroom or the curriculum.

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
	7. Indicators of Quality	Yes	Teachers and students are given sufficient tools to meet the expectations of the LSSM.
FINAL DECISION FOR THIS MATERIAL: Tier I, Exemplifies quality			





Strong mathematics instruction contains the following elements:



Publisher: McGraw-Hill Education

Copyright: 2020

Overall Rating: Tier I, Exemplifies quality

Tier I, Tier II, Tier III 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)	
4. Focus Coh. via Practice Std (Non-Negotiable)	
5. Alignment Criteria for Stnds. for Math Content	
6. Alignment Criteria for Stnds. for Math Practice	
7. Indicators of Quality	

To evaluate each set of submitted materials for alignment with the Standards, begin by reviewing the indicators listed in Column 2 for the non-negotiable criteria in Section I. If there is a "Yes" for all indicators in Column 2 for Section I, then the materials receive a "Yes" in Column 1. If there is a "No" for any indicator in Column 2 for Section I, then the materials receive a "No" in Column 1.

For Section II, begin by reviewing the required indicators in Column 2 for each criterion. If there is a "Yes" for all required indicators in Column 2, then the materials receive a "Yes" in Column 1. If there is a "No" for any required indicators in Column 2, then the materials receive a "No" in Column 1.

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 (Criteria 1 - 4), but at least one "No" in Column 1 for the remaining criteria.

Tier 3 ratings receive a "No" in Column 1 for at least one of the non-negotiable criteria.

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SECTION I: NON-NEGOTIABLE CRI	TERIA: Submissions must meet all of the non-negotial	ble criteria in o	order for the review to continue.
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 should devote the large majority of class time to the major work of each grade/course. Each grade/course must meet the criterion; do not average across two or more grades.	Yes	The number of lessons devoted to major work of the grade, which includes assessments and supporting work, is 81 out of 121 total (including all lessons that are not optional). This means that approximately 66.9% of the time is spent on major work of the grade. The number of days dedicated to major work, which includes assessments and supporting work, is 92 out of 138 days. This means that approximately 66.7% of the time is spent on major work of the grade.
	REQUIRED 1b) In any one grade/course, instructional materials should spend minimal time on content outside of the appropriate grade/course. Previous grade/course content should be used only for scaffolding instruction. In assessment materials, there are no chapter tests, unit tests, or other such assessment components that make students or teachers responsible for any topics before the grade/course in which they are introduced in the Standards.	Yes	The materials spend minimal time on content outside the scope of the seventh grade LSSM. All assessment items focus on grade level material. Lessons are clearly noted as optional when content goes beyond the scope of the seventh-grade mathematics standards. For example, in Unit 9, Lesson 5 it is stated that "this lesson begins students' transition from contexts that involve constant rates to contexts that involve average rates of change." Although average rate of change is an Algebra I Standard (A1: F-IF.B.6), the lesson is noted as optional.
Non-Negotiable 2. CONSISTENT, COHERENT CONTENT Each course's instructional materials are coherent and consistent with the content in the Standards.	REQUIRED 2a) Materials connect supporting content to major content in meaningful ways so that focus and coherence are enhanced throughout the year.	Yes	The materials are structured to enhance focus and coherence throughout the year by connecting supporting content to major content in meaningful ways. Coherence is built around major work of the grade as evidenced with the Major 7.RP standards that are addressed in multiple units across the curriculum. For example, Unit 8 focuses on Supporting 7.SP standards but relates the work back to 7.RP standards. Specifically in Unit 8, the 7.SP work supports 7.RP in the activities in Lessons 4, 7, 16, and 20, as well as in the practice problems in Lessons 1, 2, 3, 4, 5, 6, 7, 9, 10, 12, 13, 14, 16, and 17. The support for 7.RP occurs when students are asked to analyze proportional relationships (populations, middle school data, coin data, etc.).

³ For more on the major work of the grade, see <u>Focus by Grade Level</u>. 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%.

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
	REQUIRED	Yes	Additionally, 7.NS is also supported by the activities in Lessons 4 and 6. In Unit 5, 6.SP is reviewed, both to support 7.NS and to build towards 7.SP, in the practice problems in Lessons 11 and 14. The materials include problems and activities that
	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.		connect two or more clusters in a domain, or two or more domains in the grade, in cases where these connections are natural and important. Unit 4, Lesson 5 focuses on converting fractions to decimals (7.NS.A.2d) to represent a proportional relationship between quantities (7.RP.A.2). Additionally, in Unit 5, Lesson 12 students identify proportional relationships (7.RP.A.2) and perform rational number operations (7.NS.A.3) to solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (7.EE.B.3). Unit 6, Lesson 12 provides instructional activities where students use variables to create equations (7.EE.B.4) to solve real-world problems about percent increase and decrease using rational numbers in different forms (7.EE.B.3) to facilitate understanding that rewriting expressions can shed light on the problem, and how specified quantities are related (7.EE.A.2). In Unit 7, Lesson 13 students perform cross sections of a prism (7.G.A.3) to determine the area of the base and volume of the figure (7.G.B.6).
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.	REQUIRED 3a) <i>Attention to Conceptual Understanding:</i> Materials develop conceptual understanding of key mathematical concepts, especially where called for explicitly in specific content standards or cluster headings by amply featuring high-quality conceptual problems and discussion questions.	Yes	The materials enhance the development of conceptual understanding of key mathematical concepts, especially where called for explicitly in the LSSM. Major content Standard 7.NS.A.1c is emphasized in Unit 5, Lesson 5 as students use a number line to illustrate the subtraction of rational numbers. Unit 5, Lesson 8 introduces multiplication of rational numbers (7.NS.A.2) through the context of speed and direction, followed by facilitating student reasoning about quantities to understand abstract properties of numbers in Lesson 9. Unit 6, Lesson 12 scaffolds instruction to ensure conceptual understanding of how to write equivalent expressions and describe how the quantities are

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
Yes No	REQUIRED 3b) Attention to Procedural Skill and Fluency: The materials are designed so that students attain the fluencies and procedural skills required by the Standards. Materials give attention throughout the year to individual standards that set an expectation of procedural skill and fluency. In grades K-6, materials provide repeated practice toward attainment of fluency standards. In higher grades, sufficient practice with algebraic operations is provided in order for students to have the foundation for later work in algebra.	Yes	related (7.EE.A.2) through a series of teaching strategies and questioning techniques. The materials enhance the development of procedural skill and fluency of key mathematical concepts, especially where called for in the LSSM. Major LSSM 7.NS.A.1 is the focus of the Launch of Unit 6, Lesson 18 as students mentally compute the sum or difference of four expressions. In Unit 6, Lesson 18, Activity 3, Major LSSM 7.EE.A.1 is emphasized as students use the distributive property to create an equivalent expression. In addition, Practice Problem Sets provided with each unit include problems from prior units to ensure students retain fluency of skills throughout the curriculum. Within the Unit 7, Angles, Triangles, and Prisms, Practice Problem Set, students are presented with problems in which they determine equivalent expressions through factoring and the use of properties of operations (7.EE.A.1), to reinforce and retain fluency of skills learned in Unit 6, Expressions, Equations, and Inequalities. Additionally, the Practice Problem Set aligned to Unit 3, Measuring Circles addresses concepts learned in Unit 2, Introducing Proportional Relationships, by providing additional practice with ratio relationships and determining the constant of proportionality given a coordinate (7.RP.A.2).
	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	The materials provide students with opportunities to practice the application of key mathematical concepts, especially where explicitly called for in the standards. In Unit 1, Lesson 9, students create scale drawings of Utah (7.G.A.1). In Unit 4, Lesson 16, students use newspaper clipping to determine percent increase and/or percent decrease in a real- world setting (7.RP.A.3). In Unit 7, Lesson 16, students apply what they have previously learned about surface area and volume to solve real-world problems (7.G.B.6) about foam play structures and a sandbox at a daycare facility. In Unit 9, students apply concepts covered throughout all prior lessons to real-world contexts such as, floor plans and cost analysis of restaurants, planning recipes,

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
	REQUIRED 3d) Balance: The three aspects of rigor are not always treated together and are not always treated separately.	Yes	determining measurement errors, designing 5K courses, and building and using a trundle wheel. The three aspects of rigor are not always treated together and are not always treated separately within the course materials. Unit 4 focuses on student understanding and skill using percentages in context. Lessons build on one another to establish prior knowledge and facilitate procedural skill and fluency relative to problems involving percentages (7.RP.A.3), followed by a cumulative project in Lesson 16, where students ask and answer questions about percentages found in the news. This concept is revisited in Unit 9, Lessons 1-4 and 6, where students apply learned strategies and understanding to real-world contexts. Problem 7, Parts c, d, and e of Unit 6 End-of-Unit Assessment emphasize LSSM 7.EE.B.4. Here, students recognize the meaning of the given mathematical expression (conceptual understanding), solve an equation and inequality (procedural skill and fluency), and create an equation and inequality given a specific real- world scenario (application).
Non-Negotiable 4. FOCUS AND COHERENCE VIA PRACTICE STANDARDS: Materials promote focus and coherence by connecting practice standards with content that is emphasized in the Standards. Yes No	REQUIRED 4a) Materials address the practice standards in such a way as to enrich the content standards of the grade/course; practices strengthen the focus on the content standards instead of detracting from them, in both teacher and student materials.	Yes	The materials address the practice standards in such a way as to enrich the content standards. In the Course Guide, examples of the mathematical practices implemented within the units are listed. In Unit 4, students use MP.3 as they "critique[s] the reasoning shown in displays from other groups." Unit 6 notes that the first part of the unit focuses on "seeing two types of structure in the situations, diagrams, and equations of the unit (MP.7)," whereas the second portion of the unit "students solve equations of the forms px+q=r and p(x+q)=r, then solve problems that can be represented by such equations (MP.2)." In Unit 7, students use MP. 5 as they "have access to their geometry toolkits so that they have an opportunity to select and use appropriate tools strategically."

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
SECTION II: ADDITIONAL ALIGNM	ENT CRITERIA AND INDICATORS OF QUALITY		
Additional Criterion 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	REQUIRED 5a) Materials provide all students extensive work with course-level problems. Review of material from previous grades and courses is clearly identified as such to the teacher, and teachers and students can see what their specific responsibility is for the current year.	Yes	Extensive work with course level material is present throughout the curriculum. Each unit includes a Unit Overview, Lessons, Summary, Practice Problems, Assessments, Unit Downloads, and Family Support Materials. Lessons include a warm-up, activity/activities, lesson synthesis, and cool-down (glossary featured when needed) to build and reinforce student learning. Specific responsibilities for teachers and students in regards to the current year expectations are clearly identified.
consistent with the progressions in the Standards. Yes No	REQUIRED 5b) Materials relate course-level concepts explicitly to prior knowledge from earlier grades and courses. The materials are designed so that prior knowledge becomes reorganized and extended to accommodate the new knowledge.	Yes	Reorganization of prior knowledge from previous grades is explicitly related to course-level concepts in a manner that extends and accommodates new knowledge throughout the materials. Each unit has a diagnostic assessment that is composed of questions from previous grade levels that assist teachers in determining gaps or misconceptions before introducing the students to new information. For example, Problem 1 of the Unit 6 Diagnostic Assessment focuses on the creation and solving of equations (6.EE.B.7) before the creation and solving of more advanced equation types (7.EE.B.4a). Additionally, lessons focused on prerequisite skills are noted as "Building On," such as Unit 4, Lesson 3, Warm Up, that establishes prior knowledge of 6.RP.A.3, where students use ratio and rate reasoning to solve real-world mathematical problems by reasoning about tables of equivalent ratios. This reasoning is used to address 7.RP.A.2 "Recognize and represent proportional relationships between quantities."
	5c) Materials include learning objectives that are visibly shaped by LSSM cluster headings and/or standards.	Yes	Learning objectives align directly to LSSM cluster headings. Within the Course Guide for teachers, each lesson includes both teacher facing and student facing Student Learning Goals and Learning Targets. The Learning Goals align directly to the standard of focus for each lesson. Unit 3, Lesson 3 lists "I can describe the relationship between circumference and diameter of any circle" as a Student Facing learning target. This directly aligns to 7.G.B.4, "Know the formulas for the area and

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
Additional Criterion	REQUIRED	Yes	circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle." The Student Facing learning target for Unit 8, Lesson 8 states, "I can write out the sample space for a multi-step experiment, using a list, table, or tree diagram." This aligns to LSSM 7.SP.C.8b which states, "Represent sample spaces for compound events using methods such as organized lists, tables, and tree diagrams." The materials attend to the full meaning of each practice standard. The Course Guide provides
6. ALIGNMENT CRITERIA FOR STANDARDS FOR MATHEMATICAL PRACTICE: Aligned materials make meaningful and purposeful connections that enhance the focus and coherence of the Standards rather than detract from the focus and include additional content/skills to teach which are not included in the Standards.	6a) Materials attend to the full meaning of each practice standard. Over the course of any given year of instruction, each mathematical practice standard is meaningfully present in the form of assignments, activities, or problems that stimulate students to develop the habits of mind described in the practice standard. Alignments to practice standards are accurate.		teachers with a reference to where specific mathematical practice standards will occur within each unit. In the Unit 7 description, it is stated that students "should have access to their geometry toolkits so that they have an opportunity to select and use appropriate tools strategically (MP.5)." The mathematical practice standards are also evident in the individual lessons. For example, in Unit 4, Lesson 6, the following is stated regarding percent increase and decrease problems: "Students use tape diagrams and their understanding of the language of percent increase and decrease to reason about different contexts (MP.3)."
Yes No	REQUIRED 6b) 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 (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	The materials provide sufficient opportunities for students to construct viable arguments and critique the arguments of others concerning key grade-level mathematics, especially in the problem-solving of multi-step problems. The optional activity of Unit 4, Lesson 6 states that "the purpose of this activity is to for students to evaluate claims about percentages within contexts in which common misunderstandings occur." In Problem 6 of Unit 6, End-Unit Assessment, students analyze another student's simplification of an expression, find and explain the error, and correct the error. In addition to critiquing other students' reasoning, in Unit 8, Lesson 14, students "begin by critiquing different sampling methods for their benefits and drawbacks" and informally assesses their ability to construct an argument where a random sample is produced and

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
	6c) There are teacher-directed materials that explain the role of the practice standards in the classroom and in students' mathematical development.	No	reasoning of why it would be useful in a given scenario. While the math practice standards are referenced throughout the lessons, there are no teacher- directed materials that explain the role of the practice standards in the classroom and in students'
	6d) Materials explicitly attend to the specialized language of mathematics.	Yes	mathematical development. The materials explicitly attend to development and concentration on mathematical language. Teacher questioning practices are used alongside direct instruction techniques to guide students to decipher the meaning of specific mathematical terms. In Unit 7, Lesson 1, "students gain hands-on experience composing, decomposing, and measuring angles," and use these experiences to derive definitions of adjacent angles, right angles, and straight angles. In Unit 2, Lesson 2, students connect previous understanding of ratio and rate relationships to develop definitions of "proportional relationships" and "constant of proportionality."
Additional Criterion 7. INDICATORS OF QUALITY: Quality materials should exhibit the indicators outlined here in order to give teachers and students the tools they need to meet the expectations of the Standards. Yes No	REQUIRED 7a) There is variety in what students produce. For example, students are asked to produce answers and solutions, but also, in a grade-appropriate way, arguments and explanations, diagrams, mathematical models, etc.	Yes	There is variety in what students produce. Throughout the materials, there are opportunities for students to solve mathematical problems, critique arguments of others and defend their own reasoning, create models, etc. On Unit 5, Lesson 9, Practice Problems worksheet, students produce multiple answer types. Questions 1 and 3 are procedural skill and fluency problems in which students must find an exact value. Question 2 is an application problem where students must also explain their reasoning. This is also evident in the lessons themselves. Unit 6, Lessons 2 through 5 focus on reasoning about contexts and equations by using tape diagrams. In these lessons, students create tape diagrams, match equations to real-world situations, solve real-world situations using equations, explain reasoning, categorize equations, create tables, and create additional diagrams to represent relationships between quantities.
	REQUIRED7b) There are separate teacher materials that support and reward teacher study including, but not limited to:	Yes	There are separate teacher materials that support and reward teacher study. The Course Guide provides teachers with various tools that are

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
	discussion of the mathematics of the units and the mathematical point of each lesson as it relates to the organizing concepts of the unit, discussion on student ways of thinking and anticipating a variety of student responses, guidance on lesson flow, guidance on questions that prompt students thinking, and discussion of desired mathematical behaviors being elicited among students.		designed to prepare them for the instruction of the curriculum. The Course Information and Scope and Sequence portion feature a pacing guide, detailed analysis of the content within each unit, scope and sequence, lessons and standards of the materials, glossary, and required materials needed. The guide begins with a brief overview of the materials, Design Principles, Principles for Mathematics Teacher and Learning, and the flow of Typical Lesson. The Design Principles provide key information on how the learning should take place from the development of conceptual understanding and procedural fluency to the ability to solve apply such knowledge. The How to Use These Materials section provides teachers with the sequence of a lesson from the launch to the assessments. The Supporting English Language Learners and Supporting Students with Disabilities features a variety of principles that are used to aid these students in reaching mathematical success.
	7c) Support for English Language Learners and other special populations is thoughtful and helps those students meet the same standards as all other students. The language in which problems are posed is carefully considered.	Yes	Support for English Language Learners and other special populations is present and provides opportunity for those groups to meet the same standards as other students. The Supporting English Language Learners portion features the following topics to aid teachers: Promoting Language and Content Development, Theory of Action, and the Framework of the Four Design Principles for Promoting Mathematical Language Use and the Eight Mathematical Language Routines. These guiding principles and routines can also be found throughout the individual lessons to enhance instruction where recommendations are given to assist the mastery of the topic for students as needed. Each lesson with these components is clearly labeled as "Support for English Language Learners."
	7d) The underlying design of the materials distinguishes between problems and exercises. In essence, the difference is that in solving problems, students learn new mathematics, whereas in working exercises, students apply what they have already learned to build	Yes	The underlying design of the materials distinguishes between problems and exercises. The Warm-Up and Activity portion of each lesson features detailed problems that provide students with guided instruction to form connections from previously learned material to the new skill. Each lesson also

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
	mastery. Each problem or exercise has a purpose.		provides a Practice Problems document. Students apply their newly gained knowledge to complete the given exercises. For example, Unit 5, Lesson 2, provides an activity where a Student Facing Task requires students to complete a table based on temperature change and draw a number line to represent each situation. The Practice Problem handout aligned to this lesson provides additional practice where students determine values of temperature change using different methods.
	7e) Lessons are appropriately structured and scaffolded to support student mastery.	Yes	Lessons are appropriately structured and scaffolded to support student mastery. Each unit, from the student's view, includes scaffolded Lessons, Summary, and Practice Problems. The teacher materials provide detailed instruction to appropriately scaffold content, as well as, Family Materials to provide supplemental resources at home. Lessons, from the teacher view, includes a warm-up, activity, lesson synthesis, cool down and glossary section, where needed, to scaffold instruction. Within these components, alignment to prior and on grade level LSSM, learning goals and targets, required preparation and materials, and instructional routines are included. The Cool-Down is the formative assessment portion that teachers use to determine if the students understood the daily lesson. When needed, the glossary defines key terms needed to understand the lesson. The Summary section serves as a closing to ensure objective goals were met. The Practice Problems section provides students with ample conceptual, procedural, and application problems to master the targeted LSSM. The Assessment is a summative closure to test student mastery.
	7f) Materials support the uses of technology as called for in the Standards.	Yes	The materials address and support the use of technology as called for in the Standards. For example, LSSM 7.G.A.2 states, "Draw (freehand, with ruler and protractor, or with technology) geometric shapes with given conditions." In Unit 3, Lesson 2, optional Activity 4, students use a digital compass to create circles based on a specific diameter or radius and in Unit 7, Lesson 9, Activity 3,

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
			students use the digital feature to create triangles given specific side lengths and angle measurements.
		-	

FINAL EVALUATION

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 (Criteria 1 – 4), but at least one "No" in Column 1 for the remaining criteria. *Tier 3 ratings* receive a "No" in Column 1 for at least one of the non-negotiable criteria.

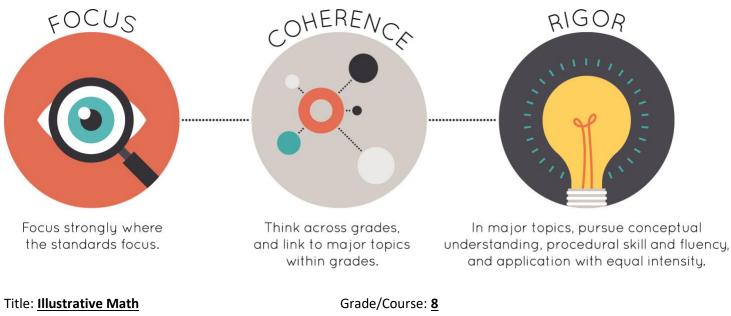
Compile the results for Sections I and II to make a final decision for the material under review.

Section	Criteria	Yes/No	Final Justification/Comments
	1. Focus on Major Work	Yes	The materials devote a majority of time to the major work of the grade, and a LA-specific curriculum map ensures teachers know the boundaries within which to teach and assess.
I: Non-Negotiables	2. Consistent, Coherent Content	Yes	Focus and coherence are enhanced throughout the curriculum through connections between supporting and major LSSM, as well as, the connection made between different domains and sub-claims.
	3. Rigor and Balance	Yes	The three aspects of rigor are not always treated together or separately within the curriculum resources provided.
	4. Focus and Coherence via Practice Standards	Yes	Materials use the practice standards to strengthen and enrich the focus of the content standards for the grade.
	5. Alignment Criteria for Standards for Mathematical Content	Yes	Materials attend to focus and coherence by linking topics and by staying consistent with the progression of the LSSM.
II: Additional Alignment Criteria and Indicators of Quality	6. Alignment Criteria for Standards for Mathematical Practice	Yes	Materials attend to the full meaning of the practice standards and provide sufficient opportunities for students to construct and critique arguments as well as attend to multi-step problems. However, no teacher directed materials were found to explain the role of the practice standards in either the classroom or the curriculum.
	7. Indicators of Quality	Yes	Teachers and students are given sufficient tools to meet the expectations of the LSSM.
FINAL DECISION FOR THIS MATERIA	L: <u>Tier I, Exemplifies quality</u>		





Strong mathematics instruction contains the following elements:



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Overall Rating: Tier I, Exemplifies quality

Tier I, Tier II, Tier III 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)	
4. Focus Coh. via Practice Std (Non-Negotiable)	
5. Alignment Criteria for Stnds. for Math Content	
6. Alignment Criteria for Stnds. for Math Practice	
7. Indicators of Quality	

To evaluate each set of submitted materials for alignment with the Standards, begin by reviewing the indicators listed in Column 2 for the non-negotiable criteria in Section I. If there is a "Yes" for all indicators in Column 2 for Section I, then the materials receive a "Yes" in Column 1. If there is a "No" for any indicator in Column 2 for Section I, then the materials receive a "No" in Column 1.

For Section II, begin by reviewing the required indicators in Column 2 for each criterion. If there is a "Yes" for all required indicators in Column 2, then the materials receive a "Yes" in Column 1. If there is a "No" for any required indicators in Column 2, then the materials receive a "No" in Column 1.

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 (Criteria 1 - 4), but at least one "No" in Column 1 for the remaining criteria.

Tier 3 ratings receive a "No" in Column 1 for at least one of the non-negotiable criteria.

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
SECTION I: NON-NEGOTIABLE CR	TERIA: Submissions must meet all of the non-negotial	ble criteria in c	order for the review to continue.
Non-Negotiable 1. FOCUS ON MAJOR WORK ⁵ : Students and teachers using the materials as designed devote the large majority ⁶ of time to the major work of the grade/course.	REQUIRED 1a) Materials should devote the large majority of class time to the major work of each grade/course. Each grade/course must meet the criterion; do not average across two or more grades. REQUIRED	Yes	The number of lessons devoted to and aligned with the major work of the grade is 97 out of the 126 total (77.78%). When excluding the lessons that are noted as "optional," 92 of 119 lessons in total (77.31%) focus on major content as defined by the LSSM. The materials spend minimal time on content
Yes No	1b) In any one grade/course, instructional materials should spend minimal time on content outside of the appropriate grade/course. Previous grade/course content should be used only for scaffolding instruction. In assessment materials, there are no chapter tests, unit tests, or other such assessment components that make students or teachers responsible for any topics before the grade/course in which they are introduced in the Standards.		outside the scope of eighth grade. All activities and practice problems where students perform rotations around a point other than the origin are optional or can be used for enrichment purposes (e.g., Unit 1, Lesson 5, Activity 3). Several lessons and activities have either no grids (Unit 1, Lesson 2) or non- coordinate grids (Unit 1, Lesson 3) which are included intentionally to prepare students for work with coordinate grids and ensure deeper conceptual understanding. Eighth grade standards specify that rotations must be about the origin; and thus, the absence of a grid or a non-coordinate grid allows these lessons/ activities to fall within LSSM. Activities and practice problems where students reflect over lines other than the x- or y-axis are optional or can be used for enrichment purposes (Unit 1, Lesson 4). Activities and practice problems where students perform dilations around a point other than the origin are optional or can be used for enrichment purposes (Unit 2, Lesson 4, Activity 2). In Unit 2, Lesson 2, a circular grid is used as a scaffold to help students understand the concept of dilation. In the same manner, Unit 2, Lesson 3 does not use a grid and students have to think about the meaning of "dilation" in terms of center, scale factor, and point being dilated. All optional / enrichment lessons are listed in the LA- specific curriculum map.

⁵ For more on the major work of the grade, see Focus by Grade Level. ⁶ 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%.

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
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	The materials are structured to enhance focus and coherence throughout the year by connecting supporting content to major content in meaningful ways. Supporting LSSM 8.NS.A.2 is connected to Major LSSM 8.EE.A.2 throughout Unit 8. Lessons 4 and 5 require students to use the square root symbol to represent solutions (8.EE.A.2) and determine whether these solutions are rational or irrational (8.NS.A.2). Lesson 12 continues to enhance this connection as students must match the square or cube root to the appropriate equation and number line representation.
	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	The materials include problems and activities that connect two or more clusters in a domain, or two or more domains in the grade, in cases where these connections are natural and important. Unit 3, Lesson 12 connects 8.EE.B to 8.EE.C as students bridge their previous knowledge of one-variable equations to two-variable equations in preparation for systems of equations. Unit 2, Lesson 11 connects 8.G.A and 8.EE.B.6 as students use the geometric principle of similarity in triangles to show that slope between two points on a line is equal.
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. No	REQUIRED 3a) <i>Attention to Conceptual Understanding:</i> Materials develop conceptual understanding of key mathematical concepts, especially where called for explicitly in specific content standards or cluster headings by amply featuring high-quality conceptual problems and discussion questions.	Yes	The materials enhance the development of conceptual understanding of key mathematical concepts, especially where called for explicitly in specific content standards. In Unit 1, Lesson 14, students develop conceptual understanding of angle relationships and measures in parallel lines cut by a transversal (8.G.A.5) through focusing on explicit vocabulary, allowing for processing time, facilitating instruction using specific instructional routines, and slowly building student work to include more complex angle relationships. Problem 3 of Unit 1, End-Unit Assessment, requires students to choose the pair of figures that have been rotated (8.G.A.1). In the Warm-Up for Unit 8, Lesson 5, students evaluate the given equations featuring square root and square symbols in order to determine if they are true or false (8.E.E.A.2). Additionally, Unit 5, Lessons 17, 18, and 19 provide scaffolded instruction to build student understanding towards developing the

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
	REQUIRED 3b) Attention to Procedural Skill and Fluency: The materials are designed so that students attain the fluencies and procedural skills required by the Standards. Materials give attention throughout the year to individual standards that set an expectation of procedural skill and fluency. In grades K-6, materials provide repeated practice toward attainment of fluency standards. In higher grades, sufficient practice with algebraic operations is provided in order for students to have the foundation for later work in algebra.	Yes	formula for the volume of a sphere (8.G.C.9). The materials enhance the development of procedural skill and fluency, especially where called for explicitly in the LSSM. Unit 4, Lessons 3 through 9 focus on Major LSSM 8.EE.C.7, which is specifically aligned to the procedural skill and fluency component of rigor. Students are provided ample scaffolding and practice to ensure fluency of solving linear equations in one variable. Unit 4, Lesson 5, Activity 2 features a fluency exercise for students to practice solving linear equations with variables on both sides (8.EE.C.7). In Unit 4, End-of-Unit Assessment, Problem 5, students compute the solution of a system of equations (8.EE.C.8).
	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	The materials provide students with opportunities to practice the application of key mathematical concepts, especially where explicitly called for in the standards. Unit 4, Lesson 15 focuses on Major LSSM 8.EE.C.8c where students build systems of equations based on real-world contexts through the provided activity. Unit 5, Lessons 7 and 8, focuses on Major LSSM 8.F.A.2 by providing opportunities for students to make connections between multiple representations of different functions in a real-world context, including temperature, volume, speed, and area. Unit 6, Lesson 6, Activity 3 emphasizes LSSM 8.SP.A.3 as students must interpret the slope of a linear model to fit a real-world scenario.
	REQUIRED 3d) <i>Balance:</i> The three aspects of rigor are not always treated together and are not always treated separately.	Yes	The three aspects of rigor are not always treated together and are not always treated separately within the course materials. Unit 3 focuses on Major LSSM 8.EE.B.5. Lessons scaffold to guide students in understanding, representing, and comparing proportional relationships (conceptual understanding) in order to write equations for linear relationships and calculate slope (procedural skill and fluency). This knowledge and set of skills is then applied to real-world context in Lesson 14 where students "create a graph (either with a table of values or by using two intercepts), interpret points on the graph, and interpret points not on the graph

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			(MP.2)." To assess mastery, Problem 7 on Unit 3, End-of-Unit Assessment emphasizes Major LSSM 8.EE.B.5. Here, students analyze a real-world scenario (application) as they interpret the monthly cell phone charge as the slope of the graph (conceptual understanding) and graph the cost of the cell phone plan over two years (procedural skill and fluency).
Non-Negotiable 4. FOCUS AND COHERENCE VIA PRACTICE STANDARDS: Materials promote focus and coherence by connecting practice standards with content that is emphasized in the Standards. Yes No	REQUIRED 4a) Materials address the practice standards in such a way as to enrich the content standards of the grade/course; practices strengthen the focus on the content standards instead of detracting from them, in both teacher and student materials.	Yes	The materials address the practice standards in such a way as to enrich the content standards. In the Course Guide, examples of the mathematical practices implemented within the units are listed. Unit 1, Transformational Geometry, provides "students opportunities to develop their abilities to select appropriate tools and use them strategically to solve problems (MP.5)" by introducing them to the Geometry Toolkit. Unit 2 states "The unit begins by revisiting different representations of proportional relationships (graphs, tables, and equations), and the role of the constant of proportionality in each representation and how it may be interpreted in context (MP.2)." Additionally, in Unit 4, "students write and solve equations, abstracting from contexts" (MP.2), and Unit 7 requires students to use MP.7 as they "manipulate the data to look for patterns in the table."
	IENT CRITERIA AND INDICATORS OF QUALITY		
Additional Criterion 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	REQUIRED 5a) Materials provide all students extensive work with course-level problems. Review of material from previous grades and courses is clearly identified as such to the teacher, and teachers and students can see what their specific responsibility is for the current year.	Yes	Extensive work with course level material is present throughout the curriculum. Each unit includes a Unit Overview, Lessons, Summary, Practice Problems, Assessments, Unit Downloads, and Family Support Materials. Lessons include a warm-up, activity/activities, lesson synthesis, and cool-down (glossary featured when needed) to build and reinforce student learning. Specific responsibilities for teachers and students in regards to the current year expectations are clearly identified.
consistent with the progressions in the Standards.	REQUIRED 5b) Materials relate course-level concepts explicitly to prior knowledge from earlier grades and courses. The materials are designed so that prior knowledge becomes	Yes	Reorganization of prior knowledge from previous grades is explicitly related to course-level concepts in a manner that extends and accommodates new knowledge throughout the materials. Each unit has a diagnostic assessment that is composed of

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
Yes No	reorganized and extended to accommodate the new knowledge.		questions from previous grade levels that assist teachers in determining gaps or misconceptions before introducing the students to new information. For example, Problem 2 of the Unit 5 Diagnostic Assessment focuses on the understanding of proportional relationships (7.RP.A.2.a) before the emphasis of linear functions (8.F.B.4). Additionally, lessons focused on prerequisite skills are noted as "Building On," such as the Unit 3, Lesson 2 Warm- Up, where students write equations of a given proportional relationship and graph it using a different scale for each axis. This is then connected later in the lesson to the eighth-grade concept, through activities where students "graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways" (8.EE.B.5).
	5c) Materials include learning objectives that are visibly shaped by LSSM cluster headings and/or standards.	Yes	Learning objectives align directly to LSSM cluster headings. Within the Course Guide for teachers, each lesson includes both teacher facing and student facing Student Learning Goals and Learning Targets. The Learning Goals align directly to the standard of focus for each lesson. The first learning goal for Lesson 2 in Unit 5 states, "Understand that a rule that produces exactly one output for each allowable input defines the output as a function of the input." This aligns to LSSM 8.F.A.1 which states the following: "Understand that a function is a rule that assigns to each input exactly one output." The first Student Facing learning target for Unit 2, Lesson 4 states, "I can apply dilations to figures on a rectangular grid." This aligns to 8.G.A.3 which states, "Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates."

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
Additional Criterion 6. ALIGNMENT CRITERIA FOR STANDARDS FOR MATHEMATICAL PRACTICE: Aligned materials make meaningful and purposeful connections that enhance the focus and coherence of the Standards rather than detract from the focus and include additional content/skills to teach which are not included in the Standards.	REQUIRED 6a) Materials attend to the full meaning of each practice standard. Over the course of any given year of instruction, each mathematical practice standard is meaningfully present in the form of assignments, activities, or problems that stimulate students to develop the habits of mind described in the practice standard. Alignments to practice standards are accurate.	Yes	The materials attend to the full meaning of each practice standard. The Course Guide provides teachers with a reference to where specific mathematical practice standards will occur within each unit. In the Unit 2 description, it is stated that students "use the definition of "similar" and properties of similar figures to justify claims of similarity or non-similarity and to reason about similar figures (MP.3)." The mathematical practice standards are also evident in the individual lessons. For example, in Unit 4, Lesson 15, the following is stated regarding systems of equations: "When students represent a real-world problem with a system, they develop an important skill for mathematical modeling (MP.4)."
Yes No	REQUIRED 6b) 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 (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	The materials provide sufficient opportunities for students to construct viable arguments and critique the arguments of others concerning key grade-level mathematics, especially in the problem-solving of multi-step problems. The Cool-Down of Unit 4, Lesson 8 asks students to determine if the analysis of the solution will be true for all values of x. In Problem 7 of Unit 7, End-of-Unit Assessment students critique a student's explanation. Problem 2, from the Unit 8, Lesson 10, Practice Problems, requires students to determine if another student's conjecture that an object will not fall through a particular sized opening, and explain the reasoning behind their response.
	6c) There are teacher-directed materials that explain the role of the practice standards in the classroom and in students' mathematical development.	No	While the math practice standards are referenced throughout the lessons, there are no teacher- directed materials that explain the role of the practice standards in the classroom and in students' mathematical development.
	6d) Materials explicitly attend to the specialized language of mathematics.	Yes	The materials explicitly attend to development and concentration on mathematical language. Teacher questioning practices are used alongside direct instruction techniques to guide students to decipher the meaning of specific mathematical terms. In Unit 2, Lesson 1, students develop understanding of a dilation as they "arrange a set of rectangles into groups with shared diagonals and examine the scale

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			factors relating the rectangles. Afterward, during the discussion, the word dilation is first used, in an informal way, as a way to make scaled copies." Additionally, in Unit 5, Lesson 2, students build on prior knowledge to convert height measurements between feet and inches to "develop students' understanding of the structure of a function as something that has one and only one output for each allowable input.
Additional Criterion 7. INDICATORS OF QUALITY: Quality materials should exhibit the indicators outlined here in order to give teachers and students the tools they need to meet the expectations of the Standards. Yes No	REQUIRED 7a) There is variety in what students produce. For example, students are asked to produce answers and solutions, but also, in a grade-appropriate way, arguments and explanations, diagrams, mathematical models, etc.	Yes	There is variety in what students produce. Throughout the materials, there are opportunities for students to solve mathematical problems, critique arguments of others and defend their own reasoning, create models, etc. The Mid-Unit Assessment for Unit 1 provides item types where students answer questions about rigid transformations in the form of multiple choice, multiple select, and constructed response requiring explanations, graphing transformations on a grid, and labeling parts of congruent figures. Question 1 of the Practice Problems aligned to Unit 6, Lesson 8, has students analyze the table of a real-world scenario, create a scatter plot, determine if there are outliers and explain reasoning, explain the relationship between variables, and draw a line of best fit.
	REQUIRED 7b) There are separate teacher materials that support and reward teacher study including, but not limited to: discussion of the mathematics of the units and the mathematical point of each lesson as it relates to the organizing concepts of the unit, discussion on student ways of thinking and anticipating a variety of student responses, guidance on lesson flow, guidance on questions that prompt students thinking, and discussion of desired mathematical behaviors being elicited among students.	Yes	There are separate teacher materials that support and reward teacher study. The Course Guide provides teachers with various tools that are designed to prepare them for the instruction of the curriculum. The Course Information and Scope and Sequence portion feature a pacing guide, detailed analysis of the content within each unit, scope and sequence, lessons and standards of the materials, glossary, and required materials needed. The guide begins with a brief overview of the materials, Design Principles, Principles for Mathematics Teacher and Learning, and the flow of Typical Lesson. The Design Principles provide key information on how the learning should take place from the development of conceptual understanding and procedural fluency to the ability to solve apply such knowledge. The How

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			to Use These Materials section provides teachers with the sequence of a lesson from the launch to the assessments. The Supporting English Language Learners and Supporting Students with Disabilities features a variety of principles that are used to aid these students in reaching mathematical success.
	7c) Support for English Language Learners and other special populations is thoughtful and helps those students meet the same standards as all other students. The language in which problems are posed is carefully considered.	Yes	Support for English Language Learners and other special populations is present and provides opportunity for those groups to meet the same standards as other students. The Supporting English Language Learners portion features the following topics to aid teachers: Promoting Language and Content Development, Theory of Action, and the Framework of the Four Design Principles for Promoting Mathematical Language Use and the Eight Mathematical Language Routines. These guiding principles and routines can also be found throughout the individual lessons to enhance instruction where recommendations are given to assist the mastery of the topic for students as needed. Each lesson with these components is clearly labeled as "Support for English Language Learners."
	7d) The underlying design of the materials distinguishes between problems and exercises. In essence, the difference is that in solving problems, students learn new mathematics, whereas in working exercises, students apply what they have already learned to build mastery. Each problem or exercise has a purpose.	Yes	The underlying design of the materials distinguishes between problems and exercises. Units are broken into lessons, which provide instructional activities with Student Facing Tasks followed by additional practice found in the Practice Problems section of the curriculum materials. For example, Unit 8, Lesson 8, requires students to determine missing side lengths of right triangles, where they must work in pairs to identify parts of a right triangle and determine missing side lengths in the Student Facing Tasks. The Practice Problems aligned to this lesson provide an opportunity to continue to practice calculating the exact value of missing lengths of a right triangle.
	7e) Lessons are appropriately structured and scaffolded to support student mastery.	Yes	Lessons are appropriately structured and scaffolded to support student mastery. Each unit, from the student's view, includes scaffolded Lessons, Summary, and Practice Problems. The teacher materials provide detailed instruction to

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES	
	7f) Materials support the uses of technology as called for in the Standards.	Yes	appropriately scaffold content, as well as, Family Materials to provide supplemental resources at home. Lessons, from the teacher view, includes a warm-up, activity, lesson synthesis, cool down and glossary section, where needed, to scaffold instruction. Within these components, alignment to prior and on grade level LSSM, learning goals and targets, required preparation and materials, and instructional routines are included. The Cool-Down is the formative assessment portion that teachers use to determine if the students understood the daily lesson. When needed, the glossary defines key terms needed to understand the lesson. The Summary section serves as a closing to ensure objective goals were met. The Practice Problems section provides students with ample conceptual, procedural, and application problems to master the targeted LSSM. The Assessment is a summative closure to test student mastery. The materials address and support the use of technology through digital tasks using virtual manipulatives and provide practice eighth grade standards that involves technology. For example, LSSM 8.EE.A.4 states, "Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used. Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities (e.g., use millimeters per year for seafloor spreading). Interpret scientific notation that has been generated by technology." Students use a calculator to check their answers. They also consider how "10 ⁹⁸ " would display on a calculator.	
FINAL EVALUATION				
<i>Tier 1 ratings</i> receive a "Yes" in Column 1 for Criteria 1 – 7. <i>Tier 2 ratings</i> receive a "Yes" in Column 1 for all non-negotiable criteria (Criteria 1 – 4), but at least one "No" in Column 1 for the remaining criteria. <i>Tier 3 ratings</i> receive a "No" in Column 1 for at least one of the non-negotiable criteria.				
	d II to make a final decision for the material under review.			
Section	Criteria	Yes/No	Final Justification/Comments	

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
I: Non-Negotiables	1. Focus on Major Work	Yes	The materials devote a majority of time to the major work of the grade, and a LA-specific curriculum map ensures teachers know the boundaries within which to teach and assess.
	2. Consistent, Coherent Content	Yes	Focus and coherence are enhanced throughout the curriculum through connections between supporting and major LSSM, as well as, the connection made between different domains and sub-claims.
	3. Rigor and Balance	Yes	The three aspects of rigor are not always treated together or separately within the curriculum resources provided.
	4. Focus and Coherence via Practice Standards	Yes	Materials use the practice standards to strengthen and enrich the focus of the content standards for the grade.
II: Additional Alignment Criteria and Indicators of Quality	5. Alignment Criteria for Standards for Mathematical Content	Yes	Materials attend to focus and coherence by linking topics and by staying consistent with the progression of the LSSM.
	6. Alignment Criteria for Standards for Mathematical Practice	Yes	Materials attend to the full meaning of the practice standards and provide sufficient opportunities for students to construct and critique arguments as well as attend to multi-step problems. However, no teacher directed materials were found to explain the role of the practice standards in either the classroom or the curriculum.
	7. Indicators of Quality	Yes	Materials support students and provide a variety of answers, solutions, arguments, diagrams, and models. In addition, teachers are provided with separate materials that reward teacher learning. However, the materials do not provide resources aligned to the Grade 8 technology component as indicated in the LSSM.
FINAL DECISION FOR THIS MATERIA	L: <u>Tier I, Exemplifies quality</u>		

Appendix I.

Publisher Response

The publisher had no response.

Appendix II.

Public Comments

There were no public comments submitted.