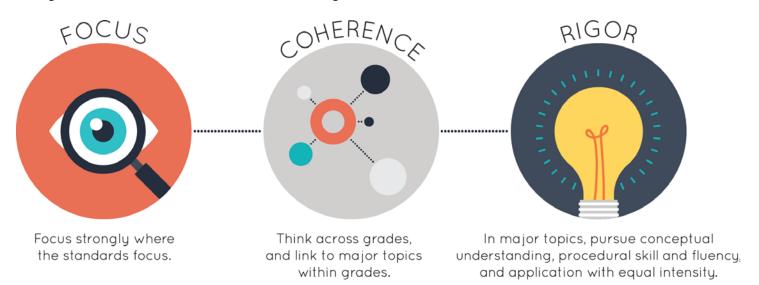


Instructional Materials Evaluation Tool for Alignment in Mathematics Grades K – 12 (IMET)



Strong mathematics instruction contains the following elements:



Title: [Title] Grade/Course: [Grade/Course]

Publisher: [Publisher] Copyright: [Copyright]

Overall Rating: [Choose one: Tier I, Exemplifies quality; Tier II, Approaching quality; Tier III, Not representing quality]

Tier I, Tier II, Tier III Elements of this review:

STRONG	WEAK

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 o	rder for the review to continue.
Non-Negotiable	REQUIRED		
1. FOCUS ON MAJOR WORK ¹ :	1a) Materials should devote the large majority of class		
Students and teachers using the	time to the major work of each grade/course. Each		
materials as designed devote the	grade/course must meet the criterion; do not average		
large majority ² of time to the major	across two or more grades.		
work of the grade/course.	REQUIRED		
	1b) In any one grade/course, instructional materials		
Yes No	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.		
Non-Negotiable	REQUIRED		
2. CONSISTENT, COHERENT	2a) Materials connect supporting content to major		
CONTENT	content in meaningful ways so that focus and coherence		
Each course's instructional	are enhanced throughout the year.		
materials are coherent and	REQUIRED		
consistent with the content in the	2b) Materials include problems and activities that serve		
Standards.	to connect two or more clusters in a domain, or two or		
	more domains in a grade/course, in cases where these		
Yes No	connections are natural and important.		
Non-Negotiable	REQUIRED		
3. RIGOR AND BALANCE:	3a) Attention to Conceptual Understanding: Materials		
Each grade's instructional materials	develop conceptual understanding of key mathematical		

¹ For more on the major work of the grade, see <u>Focus by Grade Level</u>.
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
reflect the balances in the	concepts, especially where called for explicitly in specific		
Standards and help students meet	content standards or cluster headings by amply		
the Standards' rigorous	featuring high-quality conceptual problems and		
expectations, by helping students	discussion questions.		
develop conceptual understanding,	REQUIRED		
procedural skill and fluency, and	3b) Attention to Procedural Skill and Fluency: The		
application.	materials are designed so that students attain the		
	fluencies and procedural skills required by the		
Yes No	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.		
	REQUIRED		
	3d) Balance: The three aspects of rigor are not always		
	treated together and are not always treated separately.		
Non-Negotiable	REQUIRED		
4. FOCUS AND COHERENCE VIA	4a) Materials address the practice standards in such a		
PRACTICE STANDARDS:	way as to enrich the content standards of the		
Materials promote focus and	grade/course; practices strengthen the focus on the		
coherence by connecting practice	content standards instead of detracting from them, in		

CRITERIA	INDICATORS OF SUPERIOR QUALITY	MEETS METRICS (YES/NO)	JUSTIFICATION/COMMENTS WITH EXAMPLES
standards with content that is emphasized in the Standards.	both teacher and student materials.		
Yes No			
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 consistent with the progressions in the Standards. Yes No	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. 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. 5c) Materials include learning objectives that are visibly shaped by LSSM cluster headings and/or standards.		
	5d) Materials preserve the focus, coherence, and rigor of the Standards even when targeting specific objectives.		
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	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.		
additional content/skills to teach	REQUIRED 6b) Materials provide sufficient opportunities for		

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which are not included in the	students to construct viable arguments and critique the		
Standards.	arguments of others concerning key grade-level		
	mathematics that is detailed in the content standards		
Yes No	(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.		
	6c) There are 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.		
Additional Criterion	REQUIRED		
7. INDICATORS OF QUALITY:	7a) There is variety in what students produce. For		
Quality materials should exhibit the	example, students are asked to produce answers and		
indicators outlined here in order to	solutions, but also, in a grade-appropriate way,		
give teachers and students the	arguments and explanations, diagrams, mathematical		
tools they need to meet the	models, etc.		
expectations of the Standards.	REQUIRED		
	7b) There are separate teacher materials that support		
Yes No	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 students		
	responses, guidance on lesson flow, guidance on		
	questions that prompt students thinking, and discussion		
	of desired mathematical behaviors being elicited among		
	students.		
	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.		

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	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.		
	7e) Lessons are appropriately structured and scaffolded		
	to support student mastery.		
	7f) Materials support the uses of technology as called for		
	in the Standards.		

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.

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Section	Criteria	Yes/No	Final Justification/Comments
I: Non-Negotiables	1. Focus on Major Work		
	2. Consistent, Coherent Content		
	3. Rigor and Balance		
	4. Focus and Coherence via Practice Standards		
	5. Alignment Criteria for Standards for Mathematical Content		
II: Additional Alignment Criteria and Indicators of Quality	6. Alignment Criteria for Standards for Mathematical Practice		
	7. Indicators of Quality		

FINAL DECISION FOR THIS MATERIAL: [Choose one: Tier I, Exemplifies quality; Tier II, Approaching quality; Tier III, Not representing quality]