

Quality Instructional Materials Review Tool: K-8 Mathematics

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INTRODUCTION

The Common Core State Standards (CCSS), informed by three decades of knowledge around learning, created an unprecedented opportunity to improve student achievement nationwide. However, simply adopting the CCSS and working with teachers on the instructional shifts does not directly translate into student success.

Evidence indicates that instructional materials have a significant effect on student outcomes with impact as large as teacher quality. However, schools, districts, and states lack trusted, transparent information about the quality of the materials and tools they use to guide instruction. Current state adoption processes yield inconsistent findings and provide limited evidence to support districts in selecting materials. Due to the lack of information, selection decisions often privilege factors other than alignment or quality. [Just 18 percent of teachers strongly agreed that their textbooks and main curricular materials are aligned to the common core.](#) In one study, the average cost-effectiveness ratio of switching to higher quality curriculum was almost [40 times that of class-size reduction.](#)

ABOUT EDREPORTS



Our Vision: All students and teachers in the United States will have access to the highest-quality instructional materials that will help improve student learning outcomes.



Our Mission: EdReports.org is an independent nonprofit designed to improve K-12 education. EdReports.org increases the capacity of teachers, administrators, and leaders to seek, identify, and demand the highest-quality instructional materials. Drawing upon expert educators, EdReports.org's evidence-based reviews of instructional materials and support of smart adoption processes will equip teachers with excellent materials nationwide.



Our Theory of Action: Credible information against quality criteria in a quickly changing marketplace helps educators make better purchasing decisions and improve student performance. Identifying excellence and improving demand for credible information will improve the supply of quality materials over time, leading to better student achievement outcomes.

ABOUT THIS TOOL

EdReports.org developed this tool to provide educators, stakeholders and leaders with independent and useful information about the quality of instructional materials (whether digital, traditional textbook or blended) from those who will be using them in classrooms. Educators use the tool to evaluate full sets of instructional materials in mathematics against non-negotiable criteria (see Figure 1). The tool builds on the experience of educators, curriculum experts and leading rubric developers and organizations – such as Achieve, Inc., the Council of Great City Schools, the Dana Center, Illustrative Mathematics Project, the National Council of Teachers of Mathematics and Student Achievement Partners, among others – that have conducted reviews of instructional materials, lessons and tasks.

To create the evaluation tool, EdReports.org conducted research into the use of commonly-used rubrics, gathered input from more than 500 educators during a nationwide listening tour on criteria and rubrics, interviewed professors of mathematics and mathematics education along with publishers of materials and convened an Anchor Educator Working Group (AEWG) of practitioners to inform the creation of the instrument. Continuous improvement was important to this development, and the AEWG had the opportunity to refine the tool after the initial round of implementation. The tool has three major gateways (see Figure 1) to guide the evaluation process. Reviewers apply the three gateways sequentially to ensure the extent to which materials are CCSS-aligned and usable by educators. Those materials that meet or partially meet the expectations for Gateway 1 (CCSS Focus and Coherence) will move to Gateway 2. Only those materials that meet the expectations for both Gateway 1 and Gateway 2 (Rigor and Mathematical Practices) will move to Gateway 3 (Usability Indicators).

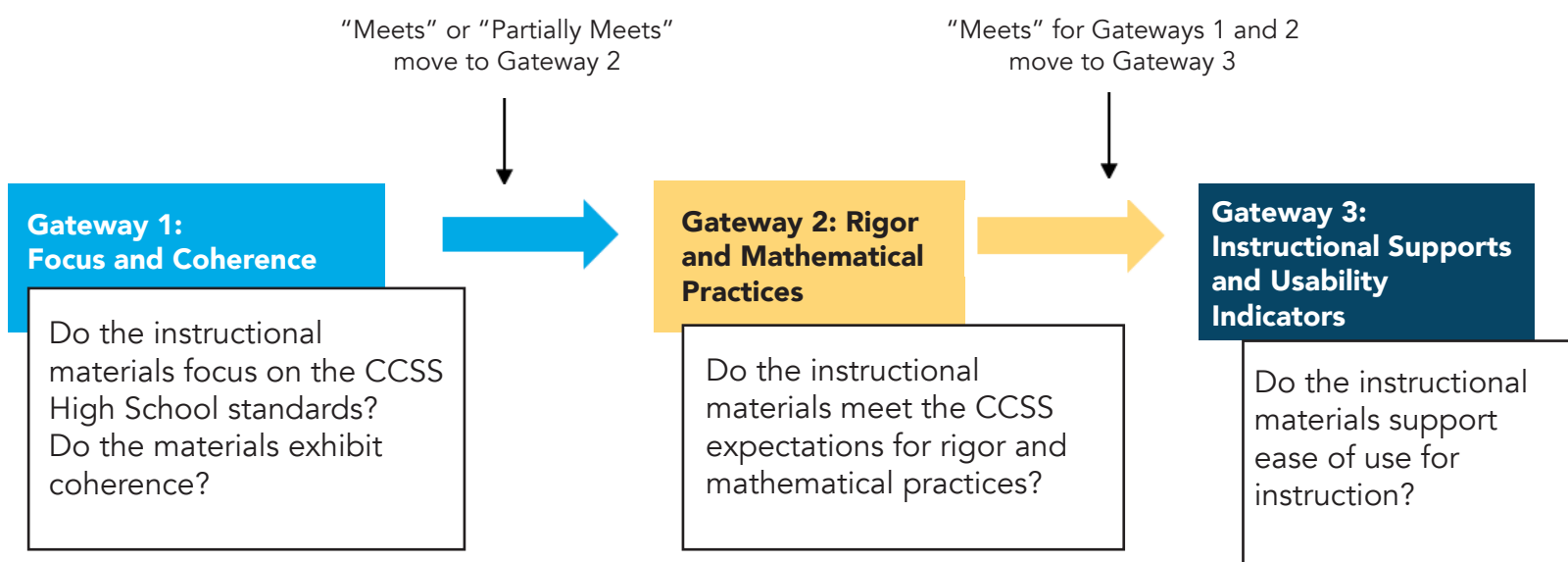


Figure 1: Gateway Evaluation Process for Review of Mathematics Materials

THE QUALITY INSTRUCTIONAL MATERIALS REVIEW TOOL

GATEWAY 1: FOCUS AND COHERENCE

In this gateway, reviewers consider how well the materials are coherent and consistent with the K-8 grade level standards that specify the mathematics which all students should study in order to be college and career ready.

Guiding review questions:

- Do the instructional materials focus on the “major work of the grade?”
- Is the sequence in which the topics are covered consistent with the logical structure of mathematics?

Rating Sheet 1: Focus and Coherence

CRITERION	INDICATORS of the criterion	POINTS	EVIDENCE
<p>Materials do not assess topics before the grade level in which the topic should be introduced.</p> <p>Earned: _____ of 2 points</p> <p>Meets expectations (2 points)</p> <p>Does not meet expectations (0 points)</p>	<p>1a. The instructional materials <u>assesses</u> the grade level content <u>and, if applicable, content</u> from earlier grades.</p>	0 2	
<p>Students and teachers using the materials as designed devote the large majority¹ of class time in each grade K-8 to the major work of the grade.</p> <p>Earned: _____ of 4 points.</p> <p>Meets expectations (4 points)</p> <p>Does not meet expectations (0 points)</p>	<p>1b. Instructional materials spend the majority of class time on the major cluster of each grade.</p>	0 4	

³ Grade level mathematics content as indicated in Common Core State Standards for Mathematics. <http://www.corestandards.org/>

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%. However, 65%-85% should be viewed as a guideline for reviewers. Reviewers should use their judgement about materials on the borderline (e.g., 64%) and note specifics in the Evidence area.

⁵ Refer also to Table 1 (page 9) in the Publisher's Criteria.

CRITERION	INDICATORS of the criterion	POINTS	EVIDENCE
<p>Coherence: Each grade’s instructional materials are coherent and consistent with the Standards.</p> <p>Earned: _____ of 8 points.</p> <p>Meets expectations (7-8 points)</p> <p>Partially meets expectations (5-6 points)</p> <p>Does not meet expectations (<5 points)</p>	1c. Supporting content enhances focus and coherence simultaneously by engaging students in the major work of the grade. ⁶	0 1 2*	
	1d. The amount of content designated for one grade level is viable for one school year in order to foster coherence between grades.	0 1 2	
	1e. Materials are consistent with the progressions in the Standards. ⁷		
	1ei. Materials develop according to the grade-by-grade progression in the Standards. If there is content from prior or future grades, that content is clearly identified and related to grade-level work.	0 1 2**	
	1eii. Materials give all students extensive work with grade-level problems.		
	1eiii. Materials relate grade level concepts explicitly to prior knowledge from earlier grades.		
	1f. Materials foster coherence through connections at a single grade, where appropriate and required by the Standards. ⁸		
	1fi. Materials include learning objectives that are visibly shaped by CCSSM cluster headings.		
	1fii. Materials include problems and activities that serve to connect two or more clusters in a domain, or two or more domains in a grade, in cases where these connections are natural and important.		

⁶ Refer also to Criterion #3 (page 5) in the Publisher’s Criteria.

⁷ Refer also to Table 1 (page 9) in the Publisher’s Criteria.

⁸ Refer also to Criterion #6 (page 13) in the Publisher’s Criteria.

Overall Gateway 1 Rating: Focus and Coherence

- Reviewers should use data recorded in Rating Sheet 1 to determine the Gateway 1 final rating

	CRITERIA	RATING SCORE
<p>GATEWAY 1: FOCUS ON MAJOR WORK⁹ and COHERENCE – Students and teachers using the materials as designed devote the large majority¹⁰ of time in each grade K-8 to the major work of the grade. Each grade’s instructional materials are coherent and consistent with the Standards.</p> <p>Earned: _____ out of 14 points</p> <p><input type="checkbox"/> Meets expectations (12-14 points)</p> <p><input type="checkbox"/> Partially meets expectations (8-11 points)</p> <p><input type="checkbox"/> Does not meet expectations (< 8 points)</p>	<p>1a. Materials do not access topics before the grade level indicated.</p>	<p>Point Totals from Rating Sheet(s):</p>
	<p>1b. Students and teachers using the materials as designed devote the large majority¹¹ of time in each K-8 to the major work of the grade.</p>	<p>Point Totals from Rating Sheet(s):</p>
	<p>1c-1f. Each grade’s instructional materials are coherent and consistent with the Standards.</p>	<p>Point Totals from Rating Sheet(s):</p>

MATERIALS MUST MEET EXPECTATIONS OR PARTIALLY MEET EXPECTATIONS FOR GATEWAY 1 TO MOVE ON TO GATEWAY 2

⁹ For more on the major work of the grade, see Focus by Grade Level.

¹⁰ 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%. However, 65%-85% should be viewed as a guideline for reviewers. Reviewers should use their judgement about materials on the borderline (e.g., 64%) and note specifics in the Evidence area.

¹¹ 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%. However, 65%-85% should be viewed as a guideline for reviewers. Reviewers should use their judgement about materials on the borderline (e.g., 64%) and note specifics in the Evidence area.

GATEWAY 2: RIGOR AND MATHEMATICAL PRACTICES

Rigor determines if a series instructional materials reflect the balances in the standards by helping students develop conceptual understanding, procedural skill and fluency, and application. Mathematical Practices determine how well materials meaningfully connect the Mathematical Content Standards and the Mathematical Practice Standards.

Guiding review questions:

- Do the instructional materials engage students with all aspects of rigor: conceptual understanding, procedural skill and fluency, and application in a balanced way?
- Do the Mathematical Practices connect to the Mathematical Content Standards in meaningful and deliberate ways?

Rating Sheet 1: Rigor and the Mathematical Practices

CRITERION	INDICATORS	POINTS	EVIDENCE
Rigor and Balance: The instructional materials reflect the balances in the Standards and help students meet the Standards' rigorous expectations, by giving appropriate attention to: developing students' conceptual understanding; procedural skill and fluency; and engaging applications. ¹² Earned: ____ of 8 points Meets expectations (7-8 points) Partially meets expectations (5-6 points) Does not meet expectations (<5 points)	<input checked="" type="checkbox"/> 2a. Attention to Conceptual Understanding: The materials support the intentional development of students' conceptual understanding of key mathematical concepts, especially where called for in specific content standards or clusters.	0 1 2	
	2b. Attention to Procedural Skill and Fluency: The materials provide intentional opportunities for students to develop procedural skills and fluencies, especially where called for in specific content standards or clusters.	0 1 2	
	2c. Attention to Applications: The materials support the intentional development of students' ability to utilize mathematical concepts and skills in engaging applications, especially where called for in specific content standards or clusters.	0 1 2	
	2d. Balance: The three aspects of rigor are not always treated together and are not always treated separately. The three aspects are balanced with respect to the standards being addressed.	0 1 2	

CRITERION	INDICATORS	POINTS	EVIDENCE
<p>Practice-Content Connection: Materials meaningfully connect the Standards for Mathematical Content and the Standards for Mathematical Practice.¹³</p> <p>Earned: ____ of 8 points</p> <p>Meets expectations (7-8 points)</p> <p>Partially meets expectations (4-6 points)</p> <p>Does not meet expectations (<4 points)</p>	2e. The Standards for Mathematical Practice are identified and used to enrich mathematics content within and throughout each applicable grade.	0 1 2	
	2f. The materials carefully attend to the full meaning of each practice standard. ¹⁴	0 1 2	
	2g. Emphasis on Mathematical Reasoning: Materials support the Standards' emphasis on mathematical reasoning by: ¹⁵		
	i. Materials prompt students to construct viable arguments and analyze the arguments of others concerning key grade-level mathematics details in the content standards.		
	ii. Materials assist teachers in engaging students in constructing viable arguments and analyzing the arguments of others concerning key grade-level mathematics detailed in the content standards.		
	iii. Materials explicitly attend to the specialized language of mathematics.	0 1 2	

¹³ Refer also to Criterion #7 (page 14) in the Publisher's Criteria. Not all items need to align to a Mathematical Practice. In addition, there is no requirement to have equal balance among the Mathematical Practices in any set of materials or grade.

¹⁴ Refer also to Criterion #9 (page 15) in the Publisher's Criteria.

¹⁵ Refer also to Criterion #10 (page 15) in the Publisher's Criteria.

Overall Gateway 2 Rating: Rigor and Mathematical Practices

- Reviewers should use data recorded in Rating Sheet 1 and 2 to determine the Gateway 2 final rating

	CRITERIA	RATING SCORE
<p>GATEWAY 2: RIGOR AND MATHEMATICAL PRACTICES – The instructional materials align with CCSS expectations for rigor and mathematical practices.</p> <p>Earned: _____ out of 18 points</p> <p><input type="checkbox"/> Meets expectations (16-18 points)</p> <p><input type="checkbox"/> Partially meets expectations (11-15 points)</p> <p><input type="checkbox"/> Does not meet expectations (< 11 points)</p>	<p>2a-2d. The 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.</p>	Point Totals from Rating Sheet(s):
	<p>2e-2g. Materials meaningfully connect the Standards for Mathematical Content and the Standards for Mathematical Practice.</p>	Point Totals from Rating Sheet(s):

MATERIALS MUST MEET EXPECTATIONS OR PARTIALLY MEET EXPECTATIONS FOR GATEWAY 1 AND 2 TO MOVE ON TO GATEWAY 3

GATEWAY 3: INSTRUCTIONAL SUPPORTS AND USABILITY INDICATORS

Gateway 3 Rating Sheets include some Indicators that are rated and some that are not rated. In cases where Indicators are not rated, the evidence collected provides valuable information about instructional materials, although the indicator is not scored and does not affect the rating for the Criterion or Gateway.¹⁶

Rating Sheet 3.1: Use and Design to Facilitate Student Learning

CRITERION	INDICATORS	RATING	EVIDENCE
<p>Use and design facilitate student learning: Materials are well designed and take into account effective lesson structure and pacing.</p> <p>Earned: ____ of 8 points</p> <p><input type="checkbox"/> Meets expectations (7-8 points)</p> <p><input type="checkbox"/> Partially meets expectations (5-6 points)</p> <p><input type="checkbox"/> Does not meet expectations (<5 points)</p>	<p>3a. 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.</p>	0 1 2	
	<p>3b. Design of assignments is not haphazard: exercises are given in intentional sequences.</p>	0 1 2	
	<p>3c. There is variety in what students are asked to produce.</p>	0 1 2	
	<p>3d. Manipulatives are faithful representations of the mathematical objects they represent and when appropriate are connected to written methods.</p>	0 1 2	
	<p>3e. The visual design (whether in print or digital) is not distracting or chaotic, but supports students in engaging thoughtfully with the subject.</p>		

16 - For indicators that do not currently receive a numerical rating, EdReports.org is providing evidence of the presence of these indicators but we are currently not including them in the ratings until we gather more information from reviewers and the field on their usefulness.

Rating Sheet 3.2: Teacher Planning and Learning for Success with CCSS

CRITERION	INDICATORS	RATING	EVIDENCE
Teacher Planning and Learning for Success with CCSS: Materials support teacher learning and understanding of the Standards. Earned: ____ of 8 points <input type="checkbox"/> Meets expectations (7-8 points) <input type="checkbox"/> Partially meets expectations (5-6 points) <input type="checkbox"/> Does not meet expectations (<5 points)	3f. Materials support teachers in planning and providing effective learning experiences by providing quality questions to help guide students' mathematical development.	0 1 2	
	3g. Materials contain a teacher's edition with ample and useful annotations and suggestions on how to present the content in the student edition and in the ancillary materials. Where applicable, materials include teacher guidance for the use of embedded technology to support and enhance student learning.	0 1 2	
	3h. Materials contain a teacher's edition (in print or clearly distinguished/accessible as a teacher's edition in digital materials) that contains full, adult-level explanations and examples of the more advanced mathematics concepts in the lessons so that teachers can improve their own knowledge of the subject, as necessary.	0 1 2	
	3i. Materials contain a teacher's edition (in print or clearly distinguished/accessible as a teacher's edition in digital materials) that explains the role of the specific grade-level mathematics in the context of the overall mathematics curriculum for kindergarten through grade twelve.	0 1 2	
	3j. Materials provide a list of lessons in the teacher's edition (in print or clearly distinguished/accessible as a teacher's edition in digital materials), cross-referencing the standards covered and providing an estimated instructional time for each lesson, chapter and unit (i.e., pacing guide).		
	3k. Materials contain strategies for informing parents or caregivers about the mathematics program and suggestions for how they can help support student progress and achievement.		
	3l. Materials contain explanations of the instructional approaches of the program and identification of the research-based strategies.		

Rating Sheet 3.3: Assessment

CRITERION	INDICATORS	RATING	EVIDENCE
Assessment: Materials offer teachers resources and tools to collect ongoing data about student progress on the Standards. Earned: ____ of 10 points <input type="checkbox"/> Meets expectations (9-10 points) <input type="checkbox"/> Partially meets expectations (6-8 points) <input type="checkbox"/> Does not meet expectations (<6 points)	3m. Materials provide strategies for gathering information about students' prior knowledge within and across grade levels.	0 1 2	
	3n. Materials provide strategies for teachers to identify and address common student errors and misconceptions.	0 1 2	
	3o. Materials provide opportunities for ongoing review and practice, with feedback, for students in learning both concepts and skills.	0 1 2	
	3p. Materials offer ongoing formative and summative assessments:		
	i. Assessments clearly denote which standards are being emphasized.	0 1 2	
ii. Assessments include aligned rubrics and scoring guidelines that provide sufficient guidance to teachers for interpreting student performance and suggestions for follow-up.	0 1 2		
3q. Materials encourage students to monitor their own progress.			

Rating Sheet 3.4: Differentiated Instruction

CRITERION	INDICATORS	RATING	EVIDENCE
Differentiated instruction: Materials support teachers in differentiating instruction for diverse learners within and across grades. Earned: ____ of 12 points <input type="checkbox"/> Meets expectations (10-12 points) <input type="checkbox"/> Partially meets expectations (8-9 points) <input type="checkbox"/> Does not meet expectations (<8 points)	3r. Materials provide strategies to help teachers sequence or scaffold lessons so that the content is accessible to all learners.	0 1 2	
	3s. Materials provide teachers with strategies for meeting the needs of a range of learners.	0 1 2	
	3t. Materials embed tasks with multiple entry- points that can be solved using a variety of solution strategies or representations.	0 1 2	
	3u. Materials suggest support, accommodations, and modifications for English Language Learners and other special populations that will support their regular and active participation in learning mathematics (e.g., modifying vocabulary words within word problems).	0 1 2	
	3v. Materials provide opportunities for advanced students to investigate mathematics content at greater depth	0 1 2	
	3w. Materials provide a balanced portrayal of various demographic and personal characteristics.	0 1 2	
	3x. Materials provide opportunities for teachers to use a variety of grouping strategies.		
	3y. Materials encourage teachers to draw upon home language and culture to facilitate learning.		

Rating Sheet 3.5: Effective Technology Use

CRITERION	INDICATORS	RATING	EVIDENCE
Effective technology use: Materials support effective use of technology to enhance student learning. Digital materials are accessible and available in multiple platforms.	3z. Materials integrate technology such as interactive tools, virtual manipulatives/objects, and/or dynamic mathematics software in ways that engage students in the Mathematical Practices.		
	3aa. Digital materials (either included as part of the core materials or as part of a digital curriculum) are web-based and compatible with multiple internet browsers (e.g., Internet Explorer, Firefox, Google Chrome, etc.). In addition, materials are “platform neutral” (i.e., are compatible with multiple operating systems such as Windows and Apple and are not proprietary to any single platform) and allow the use of tablets and mobile devices.		
	3ab. Materials include opportunities to assess student mathematical understandings and knowledge of procedural skills using technology.		
	3ac. Materials can be easily customized for individual learners.		
	i. Digital materials include opportunities for teachers to personalize learning for all students, using adaptive or other technological innovations.		
	ii. Materials can be easily customized for local use. For example, materials may provide a range of lessons to draw from on a topic.		
3ad. Materials include or reference technology that provides opportunities for teachers and/or students to collaborate with each other (e.g. websites, discussion groups, webinars, etc.).			

Overall Gateway 3 Rating: Instructional Supports and Usability Indicators

- Reviewers should use data recorded in Rating Sheet 3.1 – 3.5 to determine the Gateway 3 overall rating

	CRITERIA	RATING SCORE
<p>GATEWAY 3: INSTRUCTIONAL SUPPORTS AND USABILITY INDICATORS – Materials support student learning and engagement and support teacher learning and understanding of the Standards. Materials also offer supports to differentiate instruction for diverse learners and enrich instruction through technology.</p> <p>Earned: _____ out of 38 points</p> <p><input type="checkbox"/> Meets expectations (31-38 points)</p> <p><input type="checkbox"/> Partially meets expectations (23-30 points)</p> <p><input type="checkbox"/> Does not meet expectations (< 22 points)</p>	<p>3a-3e. Materials are well designed and take into account effective lesson structure and pacing to facilitate student learning.</p>	Point Totals from Rating Sheet(s):
	<p>3f-3l. Materials support teacher learning and understanding of the Standards.</p>	Point Totals from Rating Sheet(s):
	<p>3m-3q. Materials offer teachers resources and tools to collect ongoing data about student progress on the Standards.</p>	Point Totals from Rating Sheet(s):
	<p>3r-3y. Materials support teachers in differentiating instruction for diverse learners within and across grades.</p>	Point Totals from Rating Sheet(s):
	<p>3z-3ad. Materials support effective use of technology to enhance student learning.</p>	Unrated

CONDUCTING HIGH-QUALITY INSTRUCTIONAL MATERIALS REVIEWS

REFERENCE MATERIALS TO SUPPORT QUALITY REVIEWS

In addition to the EdReports.org Quality Instructional Materials Review Tool: High School Mathematics, reviewers have a toolkit with the following materials as references for reviews:

- [K-8 Publishers' Criteria for the Common Core State Standards for Mathematics \(Spring 2013\)](#)
- [Focus by Grade Level Documents](#)
- Evidence Guidelines (technical documentation support indicating how to collect evidence and where to find evidence)
- Standards for Mathematical Practices: Commentary and Elaborations for [K-5](#) (February 2014) and for [6-8](#) (May 2014)

USING THE TOOL AND EVIDENCE GUIDES

The Quality Instructional Materials Review Tool and the K-8 Evidence Guides work in tandem to provide educator reviewers with the criterion, indicators, and guidance to identify, collect, calibrate, and report on instructional material alignment to the standards for mathematical content, the standards for mathematical practice, and the usability of the instructional materials.

The Evidence Guides are organized by Indicator and identify:



The Guiding Question(s) that frame evidence collection



The Purpose of the Indicator to contextualize the indicator within the criterion as well as how indicators work together to build a complete picture for the criterion.



Evidence Collection to help reviewers find evidence, and when appropriate, provides examples and counterexamples of evidence for an indicator.



Questions to Guide Discussion/Discussion Prompts to help reviewers prepare for their weekly meeting where they present their rationale and evidence for a given indicator.



The Scoring Criteria that defines what must be present in the rationale and evidence to support each level of score for a given indicator.

TABLE 1

FOCUS COMPONENT 2: MAJOR CLUSTERS OF EACH GRADE

FOCUS COMPONENT 2: MAJOR CLUSTERS OF EACH GRADE					
QUALITY INDICATORS	MAJOR CLUSTERS	ADDITIONAL OR SUPPORTING CLUSTERS OR OTHER ¹⁷	QUALITY INDICATORS	MAJOR CLUSTERS	ADDITIONAL OR SUPPORTING CLUSTERS OR OTHER ¹⁸
Kindergarten	K.CC: A, B, C	K.MD: A, B	Grade 5	5.NBT: A, B	5.OA: A, B
	K.OA: A	K.G: A, B		5.NF: A, B	5.MD: A, B
	K.NBT: A			5.MD: C	5.G: A, B
Grade 1	1.OA: A, B, C, D	1.MD: B, C	Grade 6	6.RP: A	6.NS: B
	1.NBT: A, B, C	1.G: A		6.NS: A, C	6.G: A
	1.MD: A			6.EE: A, B, C	6.SP: A, B
Grade 2:	2.OA: A, B	2.OA: C	Grade 7	7.RP: A	7.G: A, B
	2.NBT: A, B	2.MD: C, D		7.NS: A	7.SP: A, B, C
	2.MD: A, B	2.G: A		7.EE: A, B	OTHER
Grade 3	3.OA: A, B, C, D	3.NBT: A	Grade 8	8.EE: A, B, C	8.NS: A
	3.NF: A	3.MD: B, D		8.F: A, B	8.G: C
	3.MD: A, C	3.G: A		8.G: A, B	8.SP: A
Grade 4	4.OA: A	4.OA: B, C			
	4.NBT: A, B	4.MD: A, B, C			
	4.NF: A, B, C	4.G: A			

9- Other signifies content that is found in other grades of the CCSSM or that is not part of the CCSSM.
 Other signifies content that is found in other grades of the CCSSM or that is not part of the CCSSM.