Instructional Materials Evaluation Tool (IMET)

Mathematics, High School

Introduction

What Are the Purposes of the IMET?

This Math IMET is designed to help educators determine whether instructional materials are aligned to the Shifts and major features of the Common Core State Standards (CCSS). The substantial instructional Shifts (www.corestandards.org/other-resources/key-shiftsin-mathematics/) at the heart of the Common Core State Standards are:

- Focus strongly where the Standards focus.
- **Coherence:** Think across grades and link to major topics within the grade.
- **Rigor:** In major topics, pursue conceptual understanding, procedural skill and fluency, and application with equal intensity.

Traditionally, judging alignment has been approached as a crosswalking exercise. But crosswalking can result in large percentages of "aligned content" while obscuring the fact that the materials in question align not at all to the letter or the spirit of the standards being implemented. The IMET is designed to sharpen the alignment question and make alignment and misalignment more clearly visible. The IMET draws from the Common Core State Standards for Mathematics (www. corestandards.org/Math).

For materials passing the IMET, educators can make use of more detailed instruments available in the Materials Alignment Toolkit (www.achievethecore.org/materials-alignment-toolkit) developed collaboratively by the Council of the Great City Schools, the Council of Chief State School Officers, and Achieve to enable further analysis of supports for special populations and other aspects of quality in aligned materials.

There are important considerations for implementation of materials in addition to alignment. Evaluators may want to add their own indicators to the ones provided here in order to evaluate local considerations beyond alignment.

When to Use the IMET

- Evaluating materials currently in use: The IMET can be used to analyze the degree of alignment of existing materials and help to highlight specific, concrete flaws in alignment. Even where materials and tools currently in use fail to meet one or more of these criteria, the pattern of failure is likely to be informative. States and districts can use the evaluation to create a thoughtful plan to modify or combine existing resources in such a way that students' actual learning experiences approach the focus, coherence, and rigor of the Standards.
- 2. Purchasing materials: Many factors go into local purchasing decisions. Alignment to the Standards is a critical factor to consider. This tool is designed to evaluate alignment of instructional materials to the Shifts and the major features of the CCSS. It also provides suggestions of additional indicators to consider in the materials evaluation and purchasing process.
- 3. Developing programs: Those developing new programs can use this tool as guidance for creating aligned curricula.

Please note that this tool was designed for evaluating comprehensive curricula (including their supplemental or ancillary materials), but it was not designed for the evaluation of standalone supplemental materials.

Who Uses the IMET?

Evaluating instructional materials requires both subject-matter and pedagogical expertise. Evaluators should be well versed in the High School Standards (www.corestandards.org/Math). This includes understanding not only the individual standards statements, but also the overall structure of CCSSM itself (see www.achievethecore. org/progressions and www.achievethecore.org/file/2530), as well as the expectations of the Standards with respect to conceptual understanding, procedural skill and fluency, and application.

Prior to Evaluation

Assemble all of the materials necessary for the evaluation. It is essential for evaluators to have materials for all courses covered by the program, as some criteria cannot be rated without having access to each course. In addition, each evaluator should have a reference copy of the Common Core State Standards for Mathematics (www.corestandards. org/Math). Reviewers may also choose to reference the High School Publishers' Criteria for the Common Core State Standards for Mathematics (Spring 2013), for additional support and guidance. (www. corestandards.org/assets/Math_Publishers_Criteria_HS_Spring%20 2013_FINAL.pdf).

Before conducting the evaluation itself, it is important to develop a protocol for the evaluation process. The protocol should include having evaluators study the IMET. It will also be helpful for evaluators to get a sense of each program overall before beginning the process. At a minimum, this would include reading the front matter of the text, looking at the table of contents, and paging through multiple chapters.

Navigating the Tool

Steps 1–3 below should be completed to produce a comprehensive picture of the strengths and weaknesses of the materials under evaluation. Information about areas in need of improvement or supplementation should be shared with internal and external stakeholders.

Step 1: Non-Negotiable Alignment Criteria (p. 4)

- The Non-Negotiable Alignment Criteria must each be met in full for materials to be considered aligned to the Shifts and the major features of the Common Core State Standards. Each Non-Negotiable Alignment Criterion has one or more metrics associated with it; every one of these metrics must be met in order for the criterion as a whole to be met.
- Examine the relevant materials and use evidence to rate the materials against each criterion and its associated metric(s).
- Record and explain the evidence upon which the rating is based.

Step 2: Alignment Criteria (p. 10)

- The Alignment Criteria must each be met for materials to be considered aligned to the Shifts and the major features of the Common Core State Standards. For each Alignment Criterion,; a specified number of the associated metrics must be met or partiallymet in order for the criterion as a whole to be met.
- Examine the materials in relation to these criteria, assigning each metric a point value. Rate the criterion as "Meets" or "Does Not Meet" based on the number of points assigned. The more points the materials receive on the Alignment Criteria, the better they are aligned.
- Record and explain the evidence upon which the rating is based.

Step 3: Evaluation Summary (p. 29)

• Compile all of the results from Sections 1 and 2 to determine if the instructional materials are aligned to the Shifts and major features of the CCSS.

All steps should be completed to produce a comprehensive picture of the strengths and weaknesses of the alignment of the materials under evaluation. Information about areas in need of improvement or supplementation should be shared with internal and external stakeholders.

Directions for Non-Negotiable 1

Focus and Coherence

Non-Negotiable 1: Materials must focus coherently on the Widely Applicable Prerequisites in a way that is consistent with the progressions in the Standards.

Focus and coherence are the two major evidence-based design principles of the Common Core State Standards for Mathematics (CCSSM, p. 3). Focus is necessary in order to fulfill the ambitious promise the states have made to their students by adopting the Standards: greater achievement at the college- and career-ready level, greater depth of understanding of mathematics, and a rich classroom environment in which reasoning, sensemaking, applications, and a range of mathematical practices flourish. In high school courses, narrowing and deepening the curriculum creates a structure that ties topics together. Thus, materials must focus coherently on the Widely Applicable Prerequisites in a way that is consistent with the progressions in the Standards.

Materials to Assemble

- Common Core State Standards for Mathematics
 (www.corestandards.org/wp-content/uploads/Math_Standards.pdf)
- Widely Applicable Prerequisites for College and Careers (www.achievethecore.org/prerequisites)
- •From the course being evaluated: teacher and student materials

It will also be helpful for reviewers to consult the High School Publishers' Criteria for the Common Core State Standards for Mathematics (Spring 2013). (www.corestandards.org/assets/Math_Publishers_Criteria_HS_Spring%202013_FINAL.pdf).

Metrics to Review

- NN Metric 1A: In any single course, students spend at least 50% of their time on Widely Applicable Prerequisites.
- **NN Metric 1B**: Student work in Geometry involves significant work with applications/modeling and problems that use algebra skills.

- **NN Metric 1C**: There are problems at a level of sophistication appropriate to high school (beyond mere review of middle school topics) that involve the application of knowledge and skills from grades 6-8.
- NN Metric 1D: Materials base courses on the content specified in the Standards.

Rating this Criterion

Non-Negotiable 1 is rated as Meets or Does Not Meet.

To rate Non-Negotiable 1, first rate Metrics 1A–1D. Each of these eight metrics must be rated as Meets in order for Non-Negotiable 1 to be rated as Meets. Rate each metric 1A–1D as Meets or Does Not Meet/ Insufficient Evidence. If the evidence examined shows that the Criterion is met, then mark the Criterion as Meets. If the evidence examined shows that the Criterion is not met—or if there is insufficient evidence to make a determination—then mark the Criterion as Does Not Meet/Insufficient Evidence. Support all ratings with evidence.

Focus and Coherence

Metric

How to Find the Evidence

NN Metric 1A:

In any single course, students spend at least 50% of their time on Widely Applicable Prerequisites. Familiarize yourself with the Widely Applicable Prerequisites.

Evaluate the table of contents and any pacing guides. Do not stop there; also evaluate units, chapters, and lessons. (Evaluate both student and teacher materials.)

Because calculating percentage in instructional materials is difficult, reviewers should not set a precise percentage threshold for meeting Metric 1A. Instead, consider time spent on the Widely Applicable Prerequisites and judge qualitatively whether students and teachers using the materials as designed will devote the majority of time to the Widely Applicable Prerequisites

For context, read Criterion #1 in the High School Publishers' Criteria for the Common Core State Standards for Mathematics (Spring 2013).

Evidence

Rating

Meets

Focus and Coherence

Metric

How to Find the Evidence

NN Metric 1B:

Student work in Geometry involves significant work with applications/modeling and problems that use algebra skills.

Evaluate the table of contents and any pacing guides. Do not stop there; also evaluate units, chapters, lessons, homework assignments, and assessments. (Evaluate both student and teacher materials.)

NOTE: Since Geometry contains relatively fewer Widely Applicable Prerequisites, this metric is important to help foster students' college and career readiness. Problems that use algebra skills might include, for example, algebraic geometry problems in a coordinate setting, or problems of measurement involving unknown quantities.

Evidence

Rating

Meets

Focus and Coherence

Metric

NN Metric 1C:

There are problems at a level of sophistication appropriate to high school (beyond mere review of middle school topics) that involve the application of knowledge and skills from grades 6–8.

How to Find the Evidence

Evaluate lessons, chapter/unit assessments, and homework assignments.

NOTE: Problems should include application of the following topics from grades 6–8:

- Ratios and proportional relationships
- Percentage and unit conversions (e.g., in the context of complex measurement problems involving quantities with derived or compound units, such as mg/ mL, kg/m³, acre-feet, etc.)
- Basic function concepts (e.g., by interpreting the features of a graph in the context of an applied problem)
- Concepts and skills of geometric measurement (e.g., when analyzing a diagram or schematic)
- Concepts and skills of basic statistics and probability (see grades 6–8.SP)
- Performing rational number arithmetic fluently

Evidence

Rating

Meets

Focus and Coherence

Metric

How to Find the Evidence

NN Metric 1D:

Materials base courses on the content specified in the Standards.

Evaluate the table of contents and any pacing guides. Do not stop there; also evaluate units, chapters, and lessons in both student and teacher materials.

For context, read Criterion #3a in the High School Publishers' Criteria for the Common Core State Standards for Mathematics (Spring 2013).

Rating

Evidence

Meets

Title of Program:

Non-Negotiable 1

Focus and Coherence

Non-Negotiable 1: Materials must focus coherently on the Widely Applicable Prerequisites in a way that is consistent with the progressions in the Standards.

Rating for Non-Negotiable 1	Rating
If all metrics 1A–1D were rated as Meets, then rate Non-Negotiable 1 as Meets. If one or more metrics were rated as Does Not Meet/Insufficient Evidence, then rate Non-Negotiable 1 as Does Not Meet. Check the final rating. Then, briefly describe the strengths and weaknesses of these materials in light of the above Criterion.	 Meets Does Not Meet
	Strengths / Weaknesses:

Before moving to Alignment Criterion 1, record the final Meets or Does Not Meet rating in the Evaluation Summary on Page 29.

Now continue by evaluating Alignment Criterion 1: Rigor and Balance.

Directions for Alignment Criterion 1

Rigor and Balance

Alignment Criterion 1: Materials must reflect the balances in the Standards and help students meet the Standards' rigorous expectations.

The Standards set expectations for all three aspects of rigor: conceptual understanding, procedural skill and fluency, and applications. Thus, materials must reflect the balances in the Standards and help students meet the Standards' rigorous expectations.

Materials to Assemble

- Common Core State Standards for Mathematics
 (www.corestandards.org/wp-content/uploads/Math_Standards.pdf)
- Widely Applicable Prerequisites for College and Careers (www.achievethecore.org/prerequisites)
- From the materials being evaluated: teacher and student materials

It will also be helpful for reviewers to consult the High School Publishers' Criteria for the Common Core State Standards for Mathematics (Spring 2013). (www.corestandards.org/assets/Math_ Publishers_Criteria_HS_Spring%202013_FINAL.pdf).

Metrics to Review

• AC Metric 1A: The materials support the development of students' conceptual understanding of key mathematical concepts, especially where called for in specific content standards or cluster headings.

- AC Metric 1B: The materials are designed so that students attain the fluency and procedural skills required by the Standards.
- AC Metric 1C: The materials are designed so that teachers and students spend sufficient time working with applications, without losing focus on the Widely Applicable Prerequisites.

Rating this Criterion

Alignment Criterion 1 is rated as Meets or Does Not Meet.

To rate Alignment Criterion 1, first rate metrics 1A, 1B, and 1C. Rate each metric as Meets (2 points), Partially Meets (1 point), or Does Not Meet (0 points). For each metric, guiding questions are provided to aid in gathering evidence.

Since there are three metrics, and each metric is worth up to 2 points, the maximum possible rating across all three metrics is 6 points. Ideally, aligned materials will earn all 6 points; materials are judged to have met Alignment Criterion 1 if the materials rate 5 or 6 points. This threshold recognizes that evaluators sometimes differ in how they assess features such as rigor and balance, while at the same time ensuring that no single metric can receive a rating of zero and be aligned to the Shifts and major features of the CCSSM.

Rigor and Balance

Use the questions on this page to evaluate Metric 1A. On page 12, record evidence for each question and rate Metric 1A.

Metric

How to Find the Evidence

AC Metric 1A:

The materials support the development of students' conceptual understanding of key mathematical concepts, especially where called for in specific content standards or cluster headings.

Identify clusters or standards from the Widely Applicable Prerequisites that relate specifically to conceptual understanding to use throughout the questions associated with this metric.

NOTE: Some examples of clusters or standards that call for conceptual understanding include: N-RN.A.1, A-APR.B, A-REI.A.1, A-REI.D.10, A.REI.D.11, F.IF.A.1, F-LE.A.1, G.SRT.A.2, G-SRT.C.6, S-ID.C.7

This list is not exhaustive.

Evidence

Where the standards explicitly require students to understand concepts, do the assignments that students work on build that understanding, and do assessment tasks reveal whether students understand the mathematics in question? Evaluate lessons, chapter/unit assessments, and homework assignments, paying attention to work aligned to standards that explicitly call for understanding or interpreting.

Do the materials feature high-quality conceptual problems and conceptual discussion questions? Evaluate lessons, chapter/unit assessments, and homework assignments. NOTE: Examples of conceptual problems might include such questions as "What is the maximum value of the function $f(t) = 5 - t^2$?" or "Is $\sqrt{2}$ a polynomial? How about $\frac{1}{2}(x + \sqrt{2}) + \frac{1}{2}(-x + \sqrt{2})$?"

Do the materials feature opportunities to identify correspondences across mathematical representations? When manipulatives are used, are they faithful representations of the mathematical objects they represent? Are manipulatives connected to written methods? Evaluate lessons, chapter/unit assessments, and homework assignments. NOTE: An example of evaluating this metric might include looking at whether materials support students in identifying correspondences among the expression that defines a function, the graph that shows the relationship, and the behavior of the phenomenon being modeled (if any).

Rigor and Balance

Metric

Evidence

AC Metric 1A:

The materials support the development of students' conceptual understanding of key mathematical concepts, especially where called for in specific content standards or cluster headings.

Where the standards explicitly require students to understand concepts, do the assignments that students work on build that understanding, and do assessment tasks reveal whether students understand the mathematics in guestion?

Do the materials feature high-quality conceptual problems and conceptual discussion questions?

Do the materials feature opportunities to identify correspondences across mathematical representations? When manipulatives are used, are they faithful representations of the mathematical objects they represent? Are manipulatives connected to written methods?

Rating

	Meets	(2)
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Partially Meets (1)

Does Not Meet (0)

Rigor and Balance

Use the questions on this page to evaluate Metric 1B. On page 14, record evidence for each question and rate Metric 1B.

Metric	How to Find the Evidence	Evidence
AC Metric 1B: The materials are designed so that students attain the fluency and procedural skills required by the Standards.	Identify clusters or standards from the Widely Applicable Prerequisites that relate specifically to fluency and procedural skill to use throughout the questions associated with this metric.	Is progress toward fluency and procedural skill interwoven with the student's developing conceptual understanding of the skills in question? Evaluate lessons, chapter/unit assessments, daily routines, and homework assignments for evidence that the development of fluency and procedural skill is supported by conceptual understanding.
	NOTE: Some examples of standards that call for procedural skill and fluency include: A-SSE.A.1b, A-SSE.2, A-APR.A.1, A-APR.C.6, F-BF.B.3, G-GPE.B.4, G-GPE.B.5, G-GPE.B.7, G-CO.A.1, G-SRT.B.5	
	This list is not exhaustive.	
	For context, read Criterion #2b in the High School Publishers' Criteria for the Common Core State Standards for Mathematics (Spring 2013).	

Rigor and Balance

Metric

Evidence

AC Metric 1B:

The materials are designed so that students attain the fluencies and procedural skills required by the Standards.

Is progress toward fluency and procedural skill interwoven with the student's developing conceptual understanding of the skills in question?

Rating

Meets (2)

Partially Meets (1)

Does Not Meet (0)

Rigor and Balance

Use the questions on this page to evaluate Metric 1C. On page 16, record evidence for each question and rate Metric 1C.

Metric

How to Find the Evidence

AC Metric 1C:

The materials are designed so that teachers and students spend sufficient time working with applications, without losing focus on the Widely Applicable Prerequisites. Identify clusters or standards from the Widely Applicable Prerequisites that relate specifically to application to use throughout the questions associated with this metric.

NOTE: Some examples of clusters or standards that call for application include: N-Q.A, A-SSE.B.3, A-REI.D.11, F-IF.B, F-IF.C.7, F-BF.A.1, G-SRT.C.8, S-ID.A.2, S-IC.A.1

This list is not exhaustive.

For context, read Criterion #2c in the High School Publishers' Criteria for the Common Core State Standards for Mathematics (Spring 2013).

Evidence

Are there single- and multi-step contextual problems that develop the mathematics of the course, afford opportunities for practice, and engage students in problem solving? Where the standards require students to solve multi-step and real-world problems, do the assignments that students work on allow them to do that, and do assessment tasks reveal whether students can do that? Evaluate lessons, chapter/unit assessments, and homework assignments.

Do application problems particularly stress applying the Widely Applicable Prerequisites? Evaluate lessons, chapter/unit assessments, and homework assignments.

Are there ample opportunities for students to engage with modeling problems? Do materials require students to use both individual parts of the modeling cycle as well as the full modeling cycle? Read the pages on High School—Modeling in the Standards for Mathematics (pp. 72 and 73). Evaluate lessons, chapter/unit assessments, and homework assignments.

Rigor and Balance

Metric

Evidence

AC Metric 1C:

The materials are designed so that teachers and students spend sufficient time working with applications, without losing focus on the Widely Applicable Prerequisites. Are there single- and multi-step contextual problems that develop the mathematics of the course, afford opportunities for practice, and engage students in problem solving? Where the standards require students to solve multi-step and real-world problems, do the assignments that students work on allow them to do that, and do assessment tasks reveal whether students can do that?

Do application problems particularly stress applying the Widely Applicable Prerequisites?

Are there ample opportunities for students to engage with modeling problems? Do materials require students to use both individual parts of the modeling cycle as well as the full modeling cycle?

Rating

Meets	(2)
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Partially Meets (1)

Does Not Meet (0)

Before moving to Alignment Criterion 2, record the final Meets or Does Not Meet rating in the Evaluation Summary on Page 29.

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Alignment Criterion 1

Rigor and Balance

Alignment Criterion 1: Materials must reflect the balances in the Standards and help students meet the Standards' rigorous expectations.

Points Assigned for Alignment Criterion 1	Rating
Materials must earn at least 5 out of 6 points to meet this Alignment Criterion. If materials earn fewer than 5 points, the Criterion has not been met. Check the final rating.	Total (6 points possible)
Then, briefly describe the strengths and weaknesses of these materials in light of the above Criterion.	 Meets Does Not Meet
	Strengths / Weaknesses:

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Directions for Alignment Criterion 2

Standards for Mathematical Practice

Alignment Criterion 2: Materials must authentically connect content standards and practice standards.

The Standards require that designers of instructional materials connect the mathematical practices to mathematical content in instruction (CCSSM, p. 8). Thus, materials must demonstrate authentic connections between content standards and practice standards.

Materials to Assemble

- Common Core State Standards for Mathematics (www.corestandards.org/wp-content/uploads/Math_Standards.pdf)
- Widely Applicable Prerequisites for College and Careers (www.achievethecore.org/prerequisites)
- · From the course being evaluated: teacher and student materials

It will also be helpful for reviewers to consult the High School Publishers' Criteria for the Common Core State Standards for Mathematics (Spring 2013). (www.corestandards.org/assets/Math_ Publishers_Criteria_HS_Spring%202013_FINAL.pdf).

Metrics to Review

• AC Metric 2A: Materials address the practice standards in such a way as to enrich the Widely Applicable Prerequisites; practice standards strengthen the focus of the course instead of detracting from it, in both teacher and student materials. • AC Metric 2B: Tasks and assessments of student learning are designed to provide evidence of students' proficiency in the Standards for Mathematical Practice.

• AC Metric 2C: Materials support the Standards' emphasis on mathematical reasoning.

Rating this Criterion

Alignment Criterion 2 is rated as Meets or Does Not Meet.

To rate Alignment Criterion 2, first rate metrics 2A, 2B, and 2C. Rate each metric as Meets (2 points), Partially Meets (1 point), or Does Not Meet (0 points). For metrics 2B and 2C, guiding questions are provided to aid in gathering evidence.

Since there are three metrics, and each metric is worth up to 2 points, the maximum possible rating across all three metrics is 6 points. Ideally, aligned materials will earn all 6 points; materials are judged to have met Alignment Criterion 2 if the materials rate 5 or 6 points. This threshold recognizes that evaluators sometimes differ in how they assess features such as mathematical practices, while at the same time ensuring that no single metric can receive a rating of zero and be aligned to the Shifts and major features of the CCSSM.

Standards for Mathematical Practice

Metric

How to Find the Evidence

AC Metric 2A:

Materials address the practice standards in such a way as to enrich the Widely Applicable Prerequisites; practice standards strengthen the focus of the course instead of detracting from it, in both teacher and student materials. Familiarize yourself with the Widely Applicable Prerequisites.

Evaluate teacher and student materials for evidence that the mathematical practices support and connect to the focus of the course.

NOTE: Examples of evaluating this metric might include looking at whether materials use regularity in repeated reasoning to illuminate formal algebra as well as functions, particularly recursive definitions of functions.

Evidence

Rating



Standards for Mathematical Practice

Metric

How to Find the Evidence

AC Metric 2B:

Tasks and assessments of student learning are designed to provide evidence of students' proficiency in the Standards for Mathematical Practice. Evaluate the variety of tasks and assessments provided (e.g., observation checklists, portfolio recommendations, performance tasks, tests and quizzes) to see whether students have opportunities to demonstrate proficiency with each of the Standards for Mathematical Practice over the course of the year. **Evidence**

Standards for Mathematical Practice

counterexample, or recognizing that examples alone do not establish a general statement.

Use the questions on this page to evaluate Metric 2C. On page 22, record evidence for each question and rate Metric 2C.

Metric	How to Find the Evidence	Evidence
AC Metric 2C: Materials support the Standards' emphasis on mathematical reasoning.	Evaluate the units, chapters, and lessons in both the teacher and student materials.	Do the materials support students in constructing viable arguments and critiquing the arguments of others concerning course-level mathematics that is detailed in the content standards? Read Standard for Mathematical Practice 3. Evaluate teacher and student materials
g-	NOTE: In order for students to reason mathematically, the mathematics in the materials must be accurate. Any concerns	to ensure that students are given opportunities to reason with grade-level mathematics.
	about mathematical accuracy should be collected as evidence for this metric.	Do the materials support students in producing not only answers and solutions, but also, in a course-appropriate way, arguments, explanations, diagrams, mathematical models, etc., especially in the Widely Applicable Prerequisites? Familiarize yourself with the Widely
	For context, read Criterion #8 in the High School Publishers' Criteria for the Common Core State Standards for Mathematics (Spring 2013).	Applicable Prerequisites. Evaluate teacher and student materials to understand the types of work students are expected to produce.
		Do materials explicitly attend to the specialized language of mathematics? Is the language of argument, problem solving, and mathematical explanations taught rather than assumed? Evaluate teacher and student materials, paying attention to how mathematical language is taught. NOTE: An example of evaluating this metric might include looking at whether students are supported in: basing arguments on definitions using the method of providing a

Standards for Mathematical Practice

Metric

Evidence

AC Metric 2C:

Materials support the Standards' emphasis on mathematical reasoning.

Do the materials support students in constructing viable arguments and critiquing the arguments of others concerning course-level mathematics that is detailed in the content standards?

Do the materials support students in producing not only answers and solutions, but also, in a course-appropriate way, arguments, explanations, diagrams, mathematical models, etc., especially in the Widely Applicable Prerequisites?

Do materials explicitly attend to the specialized language of mathematics? Is the language of argument, problem solving, and mathematical explanations taught rather than assumed?

Rating

Meets	(2)
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Partially Meets (1)

Does Not Meet (0)

Standards for Mathematical Practice

Alignment Criterion 2: Materials must authentically connect content standards and practice standards.

Points Assigned for Alignment Criterion 2	Rating
Materials must earn at least 5 out of 6 points to meet this Alignment Criterion. If materials earn fewer than 5 points, the Criterion has not been met. Check the final rating.	Total (6 points possible)
Then, briefly describe the strengths and weaknesses of these materials in light of the above Criterion.	 Meets Does Not Meet
	Strengths / Weaknesses:

Before moving to Alignment Criterion 3, record the final Meets or Does Not Meet rating in the Evaluation Summary on Page 29.

Directions for Alignment Criterion 3

Access to the Standards for All Students

Alignment Criterion 3: Materials must provide supports for English Language Learners and other special populations.

Because the Standards are for all students, evaluation requires that careful attention be paid to ensure that all students, including English Language Learners and those with different learning needs, have access to high-quality, aligned materials. The IMET is designed primarily to help educators determine whether instructional materials are aligned to the Shifts and major features of the CCSS. The IMET also allows room for local considerations to ensure that selected materials provide access for the specific set of students who will be using those materials.

Materials to Assemble

- Common Core State Standards for Mathematics (www.corestandards.org/wp-content/uploads/Math_Standards.pdf)
- From the course being evaluated: teacher and student materials

Metrics to Review

- AC Metric 3A: 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.
- AC Metric 3B: Materials provide appropriate level and type of scaffolding, differentiation, intervention, and support for a broad range of learners with gradual removal of supports, when

needed, to allow students to demonstrate their mathematical understanding independently.

• AC Metric 3C: Design of lessons attends to the needs of a variety of learners (e.g., using multiple representations, deconstructing/reconstructing the language of problems, suggestions for addressing common student difficulties).

Rating this Criterion

Alignment Criterion 3 is rated as Meets or Does Not Meet.

To rate Alignment Criterion 3, first rate metrics 3A, 3B, and 3C. Rate each metric as Meets (2 points), Partially Meets (1 point), or Does Not Meet (0 points).

Since there are three metrics, and each metric is worth up to 2 points, the maximum possible rating across all three metrics is 6 points. Ideally, aligned materials will earn all 6 points; materials are judged to have met Alignment Criterion 3 if the materials earn 5 or 6 points. This threshold recognizes that evaluators sometimes differ in how they assess features such as support for special populations, while at the same time ensuring that no single metric can receive a rating of zero and be aligned to the Shifts and major features of the CCSSM. (If reviewers notice that materials have strong supports for some populations but weak supports for others, then reviewers can consider disaggregating scores for this Alignment Criterion to ensure that the selected materials provide access for the specific students who will be using the materials.)

Access to the Standards for All Students

Metric

How to Find the Evidence

AC Metric 3A:

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. Evaluate teacher and student materials, paying attention to supports offered for special populations. Supports provided should ensure that all students are engaging with grade-level standards. For example, supports for English Language Learners should include attention to and analysis of the language of mathematical problems.

Evidence

Rating



Access to the Standards for All Students

Metric

How to Find the Evidence

AC Metric 3B:

Materials provide appropriate level and type of scaffolding, differentiation, intervention, and support for a broad range of learners with gradual removal of supports, when needed, to allow students to demonstrate their mathematical understanding independently. Evaluate teacher and student materials, paying attention to whether materials provide differentiation that will lead all learners to engage with on-grade-level content. For example, materials may offer suggestions for distinguishing between difficulties in conceptual understanding versus developing English proficiency and should offer suggestions for supporting learners in both circumstances.

Rating

Evidence



Access to the Standards for All Students

Metric

How to Find the Evidence

AC Metric 3C: Design of lessons attends to the needs of a variety of learners (e.g., using multiple representations, deconstructing/ reconstructing the language of problems, suggestions for addressing common student difficulties). Evaluate teacher materials, noting lesson design for whole class and differentiated lessons and activities.

NOTE: The examples in parentheses are not all required and there may be different approaches that developers use to meet this metric.

Rating

Evidence



Access to the Standards for All Students

Alignment Criterion 3: Materials must provide supports for English Language Learners and other special populations.

Points Assigned for Alignment Criterion 3	Rating
Materials must earn at least 5 out of 6 points to meet this Alignment Criterion. If materials earn fewer than 5 points, the Criterion has not been met. Check the final rating.	Total (6 points possible)
Then, briefly describe the strengths and weaknesses of these materials in light of the above Criterion.	Meets Does Not Meet
	Strengths / Weaknesses:

Move to the Evaluation Summary on the following page to record the final Meets or Does Not Meet rating.

Reviewer Initials:

IMET Evaluation Summary 1 of 2

Program:		Name of Evaluator(s):	
Publisher:		Date of Evaluation:	
Date of Publication:		Signature of Each Evaluator(s):	
Non-Negotiable Criteria	Alignment Criteria		
The Non-Negotiable Criterion must be Met.	Each Alignment Criteria must be met with a suf points the materials receive on the Alignment C	ficient number of points in order for Alignment Criteria, the better they are aligned.	eria to be labeled as "Meets" overall. The more
Non-Negotiable 1: Focus and Coherence Meets Does Not Meet	Alignment Criterion 1: Rigor and Balance Points: of 6 possible. (Materials must receive at least 5 of 6 points to align.) Meets Does Not Meet	Alignment Criterion 2: Standards for Mathematical Practice Points: of 6 possible. (Materials must receive at least 5 of 6 points to align.) Meets Does Not Meet	Alignment Criterion 3: Access to Standards for All Learners Points: of 6 possible. (Materials must receive at least 5 of 6 points to align.) Meets Does Not Meet

Alignment Criteria Overall

Meets

Does Not Meet

IMET Evaluation Summary 2 of 2

Program:	Name of Evaluator (s):
Publisher:	Date of Evaluation:
Date of Publication:	Signature of Each Evaluator (s):
Summary	
If the materials meet the Non-Negotiable Criterion and each Alignment Criterion, they are aligned to the Shifts and major features of the CCSS.	
Do the materials meet every Non-Negotiable and Alignment Criterion?	
Yes	
No	
What are the specific areas of strength and weakness based on this evaluation? Publishers or those implementing curricula can use this information in order to modify the materials or use them differently to improve alignment.	