Mathematics Resource Alignment Tool¹

- Rate the resource against the criteria in the Mathematics Resource Alignment Tool. Use the dimensions and the evidence statements in the tool to guide your ratings. Record strengths and weaknesses for each key criterion (Focus, Coherence, and Rigor).
- 2. Determine the high-value actions needed to fill gaps for the dimensions that make up each criterion. Identify the high-value action(s) related to each criterion that will strengthen the alignment of the resource to your college and career readiness (CCR) standards. High-value actions are those that will bring your resource into much closer alignment to the standards. In many cases, while the actions take some effort, they can be efficiently executed.

- 3. **Give an overall score for the resource.** Summarize the overall strengths and weaknesses of the resource with respect to the three criteria to score the resource.
- 4. **Begin the lesson revision process.** Review the ratings and the high-value actions you identified and choose one lesson in the resource to begin the revision process. Use the Focus on the Major Work of the Level (#4) and the Mathematics Lesson Revision Template (#5) to catalogue your improvements to the lesson. To assist with the revisions, use your CCR standards and other support documents, such as the CCR Content Progressions (#2) and Standards for Mathematical Practice (#3).

Individual Dimension Rating Descriptors

Meets	There is evidence in the resource to indicate that this dimension is met.	
Partially Meets	There is evidence in the resource to indicate that the dimension can be met with some revision.	
Does Not Meet There is little or no evidence in the resource to indicate that this dimension is being met. Substantia		
(Insufficient Evidence)	revision is needed for alignment.	

¹ Adapted from *Publishers' Criteria for the Common Core State Standards in Mathematics*. Washington, DC. Accessed January 13, 2015. http://www.corestandards.org/wp-content/uploads/Math_Publishers_Criteria_K-8_Spring_2013_FINAL1.pdf and http://www.corestandards.org/wp-content/uploads/Math_Publishers_Criteria_HS_Spring_2013_FINAL1.pdf; *Toolkit for Evaluating Alignment of Instructional and Assessment Materials to the Common Core State Standards*. http://achievethecore.org/content/upload/Materials-Alignment-Toolkit_Version2%20(9)[1].pdf

Criterion #1—Focus: Does the resource focus strongly where the standards focus, including relevant Standards for Mathematical Practice?

Dimension 1.1	Meets	Partially Meets	Does Not Meet (Insufficient Evidence)
Major Work of the Level (MWOTL): Most lessons in the resource are focused on the most critical concepts for that level. (Support document: CCR Content Progressions [#2])	the sample of lessons). Extensive work is provided wit	OTL are targeted by the resource (as h on-level problems and activities the supporting standards focus on enha	at are tied to the MWOTL.
Dimension 1.2	Meets	Partially Meets	Does Not Meet (Insufficient Evidence)
Standards for Mathematical Practice: Each lesson meaningfully connects mathematical content with the Standards for Mathematical Practice. (Support document: Standards for Mathematical Practice [#3])	 each lesson of the sample rev The targeted Standards for M There are descriptions on how 	an four—of the Standards for Matheriewed. athematical Practice are <i>central</i> to to the totology of the make meaningful connections be matical Practice in the lessons.	he goals of the lessons.

Criterion #1 (cont.)
Summary of strengths and weaknesses:
High-value actions needed to fill the gaps:
Identify the MWOTL in the resource.
\square Identify the MWOTL not covered in the resource that will need to be supplemented by other resources.
Identify and add Standards for Mathematical Practice that are central to a lesson (or reduce the number that are addressed) and include
a description of how they are related.
□ Other:

Criterion #2—Coherence: Does the resource design learning around coherent progressions between levels and within the level?

Dimension 2.1	Meets	Partially Meets	Does Not Meet (Insufficient Evidence)
Coherence Across Levels: The resource regularly relates on-level concepts to knowledge from previous levels and to future learning. (Support document: CCR Content Progressions [#2])	Mathematics content from	erstandings from previous levels. previous levels is clearly identifie to how the content of this lesson s	
Dimension 2.2	Meets	Partially Meets	Does Not Meet (Insufficient Evidence)
Coherence Within a Level: Where appropriate, the resource connects two or more standards within a progression, or two or more progressions within a level. (Support document: CCR Content Progressions [#2])	or in a series of lessons).	erstandings from previous lessons nnect knowledge and skills within o so.	

Criterion #2 (cont.)
Summary of strengths and weaknesses:
High-value actions needed to fill the gaps:
Add to lesson's knowledge and skills from prior levels needed to understand content that students are currently learning.
☐ Identify "as review" student tasks, activities, or assessment items included in lessons that reference learning at previous levels.
Recommend that student activities or assessment items addressing learning at subsequent levels be excluded from a lesson or identified
as an extension of work at the current level.
<u> </u>
☐ Suggest rearranging lessons so the sequence of knowledge and skills learned in the resource has a natural and logical flow to support student learning.
Other:

Criterion #3—Rigor: Does the resource pursue conceptual understanding, procedural skill and fluency, and application with equal intensity?

Dimension 3.1	Meets	Partially Meets	Does Not Meet (Insufficient Evidence)
Conceptual Understanding: The resource regularly develops students' conceptual understanding through tasks, problems, questions, multiple representations, and opportunities for students to write and speak about their understanding.	Discussion questions requiring co	onceptual understanding of the most of conceptual understanding are provided ents to demonstrate, in multiple ways, are lessons.	with the lessons.
Dimension 3.2	Meets	Partially Meets	Does Not Meet (Insufficient Evidence)
Procedural Skill and Fluency: The resource regularly asks students to perform calculations and use mathematical procedures quickly and accurately.	 Evidence: The resource is designed so that students attain the fluencies and procedural skills required by CCR standards. The resource expects core calculations and mathematical procedures for the level to be performed quickly and accurately and provides the requisite support to build that capacity in students. 		

Criterion #3 (cont.)			
	Meets	Partially Meets	Does Not Meet (Insufficient Evidence)
Dimension 3.3			
Application: The resource regularly requires students to engage in challenging applications of mathematics in real-world and mathematical contexts.	without losing focus on the MWThe resource regularly provides	t students spend sufficient time workin /OTL. opportunities for students to independ is and solve challenging problems that r	dently apply mathematical
Summary of strengths and weaknesses:			
High-value actions needed to fill the gaps: Add problems or tasks that are good		d in a lesson and that focus on the fo	llowing areas:
O Conceptual understanding	of the MWOTL		
O Challenging application pro	oblems		
O Procedural and computation	onal practice		
☐ Add high-level discussion questions☐ Other:	s and instructions targeted toward b	ouilding conceptual understanding.	

Overall Rating:

Tight Alignment	Most (four or more) of the dimensions are rated as Meets , with the remainder rated as Partially Meets. There are only a few minor revisions (or none at all) needed to improve alignment of the resource to CCR standards.
Partial Alignment	Most (four or more) of the dimensions are rated at least as Partially Meets . Moderate revisions are needed to improve alignment of the resource to CCR standards.
Weak Alignment	Most (four or more) of the dimensions are rated as Does Not Meet . Substantial revisions are needed to improve alignment of the resource to CCR standards.
summary of key stre	engths and weaknesses:

Notes: