

TEXTBOOK REVIEW FORM

MATHEMATICS

Grade 7 Accelerated Content Standards

Textbook/Series: _____

Edition: _____ **Copyright:** _____ **Publisher:** _____

Reviewed by: _____

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STANDARDS FOR MATHEMATICAL PRACTICE – MATHEMATICS – GRADE K-12 – OVERALL

Textbook/Series: _____

Edition: _____ Copyright: _____ Publisher: _____

<u>OVERALL RATING:</u>		Comments:
	Weak (1-2) Moderate (2-3) Strong (3-4)	
1. Make sense of problems and persevere in solving them. Summary/Justification/Evidence:	Weak (1-2) Moderate (2-3) Strong (3-4)	2. Reason abstractly and quantitatively. Summary/Justification/Evidence Weak (1-2) Moderate (2-3) Strong (3-4)
3. Construct viable arguments and critique the reasoning of others. Summary/Justification/Evidence:	Weak (1-2) Moderate (2-3) Strong (3-4)	4. Model with mathematics. Summary/Justification/Evidence: Weak (1-2) Moderate (2-3) Strong (3-4)
5. Use appropriate tools strategically. Summary/Justification/Evidence:	Weak (1-2) Moderate (2-3) Strong (3-4)	6. Attend to precision. Summary/Justification/Evidence: Weak (1-2) Moderate (2-3) Strong (3-4)
7. Look for and make use of structure. Summary/Justification/Evidence:	Weak (1-2) Moderate (2-3) Strong (3-4)	8. Look for and express regularity in repeated reasoning. Summary/Justification/Evidence: Weak (1-2) Moderate (2-3) Strong (3-4)

Weak: This is the lowest rating a book can receive. In general, a book that was rated as “weak” scored mostly 1s and 2s on a 4-point scale.

Moderate: This is the middle rating a book can receive. In general, a book that was rated as “moderate” scored mostly 2s and 3s on a 4-point scale.

Strong: This is the highest rating a book can receive. In general, a book that was rated as “strong” scored mostly 3s and 4s on a 4-point scale.

TEXTBOOK REVIEW FORM – MATHEMATICS – STANDARDS FOR MATHEMATICAL PRACTICE GRADES K-12

Documenting Alignment to the Standards for Mathematical Practice

Mathematically proficient students:

1. Make sense of problems and persevere in solving them.

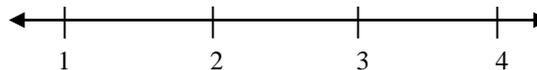
These students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze givens, constraints, relationships, and goals. They make conjectures about the form and meaning of the solution and plan a solution pathway rather than simply jumping into a solution attempt. These students consider analogous problems and try special cases and simpler forms of the original problem in order to gain insight into its solution. They monitor and evaluate their progress and change course if necessary. Older students might, depending on the context of the problem, transform algebraic expressions or change the viewing window on their graphing calculator to obtain the information they need. Mathematically proficient students can explain correspondences between equations, verbal descriptions, tables, and graphs or draw diagrams of important features and relationships, graph data, and search for regularity or trends. Younger students might rely on using concrete objects or pictures to help conceptualize and solve a problem. Mathematically proficient students check their answers to problems using a different method, and they continually ask themselves, “Does this make sense?” They can understand the approaches of others to solve complex problems and identify correspondences between different approaches.

Indicate the chapter(s), sections, and/or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



Documenting Alignment to the Standards for Mathematical Practice

Mathematically proficient students:

2. Reason abstractly and quantitatively.

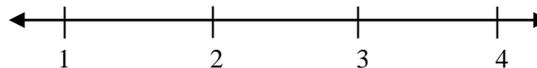
Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to bear on problems involving quantitative relationships. One is the ability to *decontextualize*, to abstract a given situation and represent it symbolically and manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents. The second is the ability to *contextualize*, to pause as needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits of creating a coherent representation of the problem at hand; considering the units involved; attending to the meaning of quantities, not just how to compute them; and knowing and flexibly using different properties of operations and objects.

Indicate the chapter(s), sections, and/or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



TEXTBOOK REVIEW FORM – MATHEMATICS – STANDARDS FOR MATHEMATICAL PRACTICE GRADES K-12

Documenting Alignment to the Standards for Mathematical Practice

Mathematically proficient students:

3. Construct viable arguments and critique the reasoning of others.

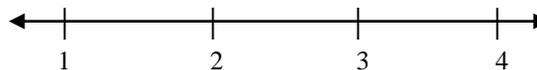
These students understand and use stated assumptions, definitions, and previously established results in constructing arguments. They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. These students justify their conclusions, communicate them to others, and respond to the arguments of others. They reason inductively about data, making plausible arguments that take into account the context from which the data arose. Mathematically proficient students are also able to compare the effectiveness of two plausible arguments; distinguish correct logic or reasoning from that which is flawed; and, if there is a flaw in an argument, explain what it is. Elementary students can construct arguments using concrete referents such as objects, drawings, diagrams, and actions. Such arguments can make sense and be correct, even though they are not generalized or made formal until the middle or upper grades. Later, students learn to determine domains to which an argument applies. Students at all grades can listen to or read the arguments of others, decide whether they make sense, and ask useful questions to clarify or improve the arguments.

Indicate the chapter(s), sections, and/or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



Documenting Alignment to the Standards for Mathematical Practice

Mathematically proficient students:

4. Model with mathematics.

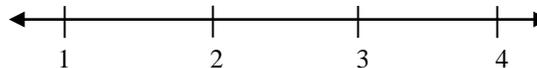
These students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, students might apply proportional reasoning to plan a school event or analyze a problem in the community. By high school, students might use geometry to solve a design problem or use a function to describe how one quantity of interest depends on another. Mathematically proficient students who can apply what they know are comfortable making assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important quantities in a practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts, and formulas and can analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.

Indicate the chapter(s), sections, and/or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



TEXTBOOK REVIEW FORM – MATHEMATICS – STANDARDS FOR MATHEMATICAL PRACTICE GRADES K-12

Documenting Alignment to the Standards for Mathematical Practice

Mathematically proficient students:

5. Use appropriate tools strategically.

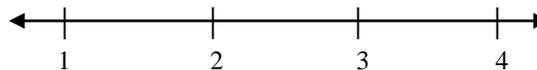
Mathematically proficient students consider available tools when solving a mathematical problem. These tools might include pencil and paper, concrete models, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful, recognizing both the insight to be gained and their limitations. For example, mathematically proficient high school students analyze graphs of functions and solutions generated using a graphing calculator. They detect possible errors by strategically using estimation and other mathematical knowledge. When making mathematical models, they know that technology can enable them to visualize the results of varying assumptions, explore consequences, and compare predictions with data. Mathematically proficient students at various grade levels are able to identify relevant external mathematical resources, such as digital content located on a Web site, and use these to pose or solve problems. They are able to use technological tools to explore and deepen their understanding of concepts.

Indicate the chapter(s), sections, and/or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



TEXTBOOK REVIEW FORM – MATHEMATICS – STANDARDS FOR MATHEMATICAL PRACTICE GRADES K-12

Documenting Alignment to the Standards for Mathematical Practice

Mathematically proficient students:

6. Attend to precision.

These students try to communicate precisely to others. They try to use clear definitions in discussion with others and in their own reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. Mathematically proficient students are careful about specifying units of measure and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, and express numerical answers with a degree of precision appropriate for the problem context. In the elementary grades, students give carefully formulated explanations to each other. By the time they reach high school they have learned to examine claims and make explicit use of definitions.

Indicate the chapter(s), sections, and/or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



Documenting Alignment to the Standards for Mathematical Practice

Mathematically proficient students:

7. Look for and make use of structure.

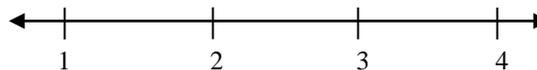
Mathematically proficient students look closely to discern a pattern or structure. Young students, for example, might notice that three and seven more is the same amount as seven and three more, or they may sort a collection of shapes according to how many sides the shapes have. Later, students will see 7×8 equals the well-remembered $7 \times 5 + 7 \times 3$, in preparation for learning about the distributive property. In the expression $x^2 + 9x + 14$, older students can see the 14 as 2×7 and the 9 as $2 + 7$. They recognize the significance of an existing line in a geometric figure and can use the strategy of drawing an auxiliary line for solving problems. These students also can pause and reflect for an overview and shift perspective. They can observe the complexities of mathematics, such as some algebraic expressions as single objects or as being composed of several objects. For example, they can see $5 - 3(x - y)^2$ as 5 minus a positive number times a square and use that to realize that its value cannot be more than 5 for any real numbers x and y .

Indicate the chapter(s), sections, and/or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



TEXTBOOK REVIEW FORM – MATHEMATICS – STANDARDS FOR MATHEMATICAL PRACTICE GRADES K-12

Documenting Alignment to the Standards for Mathematical Practice

Mathematically proficient students:

8. Look for and express regularity in repeated reasoning.

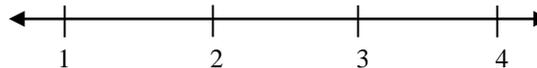
They notice if calculations are repeated, and look both for general methods and for shortcuts. Upper elementary students might notice when dividing 25 by 11 that they are repeating the same calculations over and over again and conclude they have a repeating decimal. By paying attention to the calculation of slope as they repeatedly check whether points are on the line through (1, 2) with slope 3, middle school students might abstract the equation $(y - 2)/(x - 1) = 3$. Noticing the regularity in the way terms cancel when expanding $(x - 1)(x + 1)$, $(x - 1)(x^2 + x + 1)$, and $(x - 1)(x^3 + x^2 + x + 1)$ might lead them to the general formula for the sum of a geometric series. As students work to solve a problem, mathematically proficient students maintain oversight of the process, while attending to the details and continually evaluate the reasonableness of their intermediate results.

Indicate the chapter(s), sections, and/or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



**TEXTBOOK REVIEW FORM – MATHEMATICS – OVERALL
MATHEMATICAL STANDARDS & OTHER CRITERIA – GRADE 7 ACCELERATED CONTENT STANDARDS**

Textbook/Series: _____

Edition: _____ Copyright: _____ Publisher: _____

<p><u>OVERALL RATING:</u></p> <p style="text-align: center;">Weak (1-2) Moderate (2-3) Strong (3-4)</p>	<p>Important Mathematical Ideas: Summary/Justification/Evidence:</p> <p style="text-align: center;">Weak (1-2) Moderate (2-3) Strong (3-4)</p>
<p>Skills and Procedures: Summary/Justification/Evidence:</p> <p style="text-align: center;">Weak (1-2) Moderate (2-3) Strong (3-4)</p>	<p>Mathematical Relationships: Summary/Justification/Evidence</p> <p style="text-align: center;">Weak (1-2) Moderate (2-3) Strong (3-4)</p>
<p>Content: Summary/Justification/Evidence:</p> <p style="text-align: center;">Weak (1-2) Moderate (2-3) Strong (3-4)</p>	<p>Instruction: Summary/Justification/Evidence:</p> <p style="text-align: center;">Weak (1-2) Moderate (2-3) Strong (3-4)</p>
<p>Assessment: Summary/Justification/Evidence:</p> <p style="text-align: center;">Weak (1-2) Moderate (2-3) Strong (3-4)</p>	<p>Technology: Summary/Justification/Evidence:</p> <p style="text-align: center;">Weak (1-2) Moderate (2-3) Strong (3-4)</p>

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Proportional Reasoning

<p>Analyze proportional relationships and use them to solve real-world problems and mathematical problems.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <ol style="list-style-type: none"> Calculate unit rates of length, area, and other quantities measured in like or different units that include ratios or fractions. [<i>Grade 7, 1</i>] 	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p>				
	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>	

Proportional Reasoning

<p>Analyze proportional relationships and use them to solve real-world problems and mathematical problems.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>2. Represent a relationship between two quantities and determine whether the two quantities are related proportionally.</p> <p>a. Use equivalent ratios displayed in a table or in a graph of the relationship in the coordinate plane to determine whether a relationship between two quantities is proportional.</p> <p>b. Identify the constant of proportionality (unit rate) and express the proportional relationship using multiple representations including tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.</p> <p>c. Explain in context the meaning of a point (x,y) on the graph of a proportional relationship, with special attention to the points $(0,0)$ and $(1, r)$ where r is the unit rate. [Grade 7, 2]</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p>				
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>	

Proportional Reasoning

<p>Analyze proportional relationships and use them to solve real-world problems and mathematical problems.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>3. Solve multi-step percent problems in context using proportional reasoning, including simple interest, tax, gratuities, commissions, fees, markups and markdowns, percent increase, and percent decrease. [Grade 7, 3]</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p> <p style="text-align: center;">1 2 3 4</p>				

Proportional Reasoning

<p>Analyze the relationship between proportional and non-proportional situations.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>4. Determine whether a relationship between two variables is proportional or non-proportional. [<i>Grade 8, 7</i>]</p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>Summary/Justification/Evidence</p>					
<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>					
<p>Overall Rating</p> <p style="text-align: center;">1 2 3 4</p>					

Proportional Reasoning

<p>Analyze the relationship between proportional and non-proportional situations.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>5. Graph proportional relationships.</p> <p>a. Interpret the unit rate of a proportional relationship, describing the constant of proportionality as the slope of the graph which goes through the origin and has the equation $y = mx$ where m is the slope. [Grade 8, 8]</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p> <p>Summary/Justification/Evidence</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p> <p>1 2 3 4</p>				

Proportional Reasoning

Analyze the relationship between proportional and non-proportional situations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
<p>Students will:</p> <p>6. Interpret $y = mx + b$ as defining a linear equation whose graph is a line with m as the slope and b as the y-intercept.</p> <p>a. Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in a coordinate plane.</p> <p>b. Given two distinct points in a coordinate plane, find the slope of the line containing the two points and explain why it will be the same for any two distinct points on the line.</p> <p>c. Graph linear relationships, interpreting the slope as the rate of change of the graph and the y-intercept as the initial value.</p> <p>d. Given that the slopes for two different sets of points are equal, demonstrate that the linear equations that include those two sets of points may have different y-intercepts. [Grade 8, 9]</p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary/Justification/Evidence				
Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):					
Overall Rating					
		1	2	3	4

Proportional Reasoning

<p>Analyze the relationship between proportional and non-proportional situations.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>7. Compare proportional and non-proportional linear relationships represented in different ways (algebraically, graphically, numerically in tables, or by verbal descriptions) to solve real-world problems. [<i>Grade 8, 10</i>]</p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p> <p style="text-align: center;">1 2 3 4</p>				

Number Systems and Operations

Apply and extend prior knowledge of addition, subtraction, multiplication, and division to operations with rational numbers.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.							
<p>Students will:</p> <p>8. Apply and extend knowledge of operations of whole numbers, fractions, and decimals to add, subtract, multiply, and divide rational numbers including integers, signed fractions, and decimals.</p> <p>a. Identify and explain situations where the sum of opposite quantities is 0 and opposite quantities are defined as additive inverses.</p> <p>b. Interpret the sum of two or more rational numbers, by using a number line and in real-world contexts.</p> <p>c. Explain subtraction of rational numbers as addition of additive inverses.</p> <p>d. Use a number line to demonstrate that the distance between two rational numbers on the number line is the absolute value of their difference, and apply this principle in real-world contexts.</p> <p>e. Extend strategies of multiplication to rational numbers to develop rules for multiplying signed numbers, showing that the properties of the operations are preserved.</p> <p>f. Divide integers and explain that division by zero is undefined. Interpret the quotient of integers (with a non-zero divisor) as a rational number.</p> <p>g. Convert a rational number to a decimal using long division, explaining that the decimal form of a rational number terminates or eventually repeats. [Grade 7, 4]</p>	Important Mathematical Ideas	1	2	3	4			
	Skills and Procedures	1	2	3	4			
	Mathematical Relationships	1	2	3	4			
<p>Summary/Justification/Evidence</p>								
<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>								
<p>Overall Rating</p>					1	2	3	4

Number Systems and Operations

<p>Apply and extend prior knowledge of addition, subtraction, multiplication, and division to operations with rational numbers.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>9. Solve real-world and mathematical problems involving the four operations of rational numbers, including complex fractions. Apply properties of operations as strategies where applicable. <i>[Grade 7, 5]</i></p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>Summary/Justification/Evidence</p>					
<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>					
<p>Overall Rating</p>		<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>

Number Systems and Operations

<p>Understand that the real number system is composed of rational and irrational numbers.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>10. Define the real number system as composed of rational and irrational numbers.</p> <p>a. Explain that every number has a decimal expansion; for rational numbers, the decimal expansion repeats in a pattern or terminates.</p> <p>b. Convert a decimal expansion that repeats in a pattern into a rational number. [<i>Grade 8, 1</i>]</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
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Number Systems and Operations

<p>Understand that the real number system is composed of rational and irrational numbers.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>11. Locate rational approximations of irrational numbers on a number line, compare their sizes, and estimate the values of irrational numbers. [Grade 8, 2]</p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p> <p>1 2 3 4</p>				

Algebra and Functions

<p>Create equivalent expressions using the properties of operations.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>12. Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients. [Grade 7, 6]</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p> <p style="text-align: center;">1 2 3 4</p>				

Algebra and Functions

<p>Create equivalent expressions using the properties of operations.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>13. Generate expressions in equivalent forms based on context and explain how the quantities are related. [<i>Grade 7, 7</i>]</p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p>				
		<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>

Algebra and Functions

<p>Apply concepts of rational and integer exponents.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>14. Develop and apply properties of integer exponents to generate equivalent numerical and algebraic expressions. [Grade 8, 3]</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p>				
	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>	

Algebra and Functions

<p>Apply concepts of rational and integer exponents.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>15. Use square root and cube root symbols to represent solutions to equations.</p> <p>a. Evaluate square roots of perfect squares (less than or equal to 225) and cube roots of perfect cubes (less than or equal to 1000).</p> <p>b. Explain that the square root of a non-perfect square is irrational. [Grade 8, 4]</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p> <p style="text-align: center;">1 2 3 4</p>				

Algebra and Functions

<p>Apply concepts of rational and integer exponents.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>16. Express and compare very large or very small numbers in scientific notation. [Grade 8, 5]</p> <p>a. Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used, expressing answers in scientific notation. [Grade 8, 6]</p> <p>b. Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities. [Grade 8, 6a]</p> <p>c. Interpret scientific notation that has been generated by technology. [Grade 8, 6b]</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Summary/Justification/Evidence</p>				
	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p> <p>1 2 3 4</p>				

Algebra and Functions

<p>Solve real-world and mathematical problems using numerical and algebraic expressions, equations, and inequalities.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>17. Solve multi-step real-world and mathematical problems involving rational numbers (integers, signed fractions, and decimals), converting between forms as needed. Assess the reasonableness of answers using mental computation and estimation strategies. [<i>Grade 7, 8</i>]</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p> <p style="text-align: center;">1 2 3 4</p>				

Algebra and Functions

<p>Solve real-world and mathematical problems using numerical and algebraic expressions, equations, and inequalities.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>18. Use variables to represent quantities in a real-world or mathematical problem and construct algebraic expressions, equations, and inequalities to solve problems by reasoning about the quantities.</p> <p>a. Solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$, where p, q, and r are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach.</p> <p>b. Solve word problems leading to inequalities of the form $px + q > r$ or $px + q < r$, where p, q, and r are specific rational numbers. Graph the solution set of the inequality and interpret it in the context of the problem. <i>[Grade 7, 9, and linear portion of Algebra I with Probability, 11]</i></p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p> <p>1 2 3 4</p>				

Algebra and Functions

Solve real-world and mathematical problems using numerical and algebraic expressions, equations, and inequalities.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
<p>Students will:</p> <p>19. Create equations in two variables to represent relationships between quantities in context; graph equations on coordinate axes with labels and scales and use them to make predictions. Limit to contexts arising from linear functions. [<i>Algebra I with Probability, 12 partial</i>]</p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
<p>Summary/Justification/Evidence</p>					
<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>					
<p>Overall Rating</p> <p style="text-align: center;">1 2 3 4</p>					

Algebra and Functions

Solve real-world and mathematical problems using numerical and algebraic expressions, equations, and inequalities.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
<p>Students will:</p> <p>20. Represent constraints by equations and/or inequalities, and interpret solutions as viable or nonviable options in a modeling context. Limit to contexts arising from linear. [<i>Algebra I with Probability, 13 partial</i>]</p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
<p>Summary/Justification/Evidence</p>					
<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>					
<p>Overall Rating</p> <p style="text-align: center;">1 2 3 4</p>					

Algebra and Functions

<p>Solve real-world and mathematical problems using numerical and algebraic expressions, equations, and inequalities.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>21. Solve multi-step linear equations in one variable, including rational number coefficients, and equations that require using the distributive property and combining like terms.</p> <p>a. Determine whether linear equations in one variable have one solution, no solution, or infinitely many solutions of the form $x = a$, $a = a$, or $a = b$ (where a and b are different numbers).</p> <p>b. Represent and solve real-world and mathematical problems with equations and interpret each solution in the context of the problem. [Grade 8, 11]</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p> <p>1 2 3 4</p>				

Algebra and Functions

<p>Explain, evaluate, and compare functions.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>22. Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, $k \cdot f(x)$, $f(kx)$, and $f(x + k)$ for specific values of k (both positive and negative); find the value of k given the graphs. Experiment with cases and explain the effects on the graph using technology, where appropriate. Limit to linear functions. [Algebra I with Probability, 23]</p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>Summary/Justification/Evidence</p>					
<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>					
<p>Overall Rating</p>					
<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>		

Algebra and Functions

Explain, evaluate, and compare functions.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
<p>Students will:</p> <p>23. Construct a function to model the linear relationship between two variables.</p> <p>a. Interpret the rate of change (slope) and initial value of the linear function from a description of a relationship from two points in a table or graph. [<i>Grade 8, 16</i>]</p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary/Justification/Evidence				
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):				
	<p>Overall Rating</p> <p style="text-align: center;">1 2 3 4</p>				

Algebra and Functions

<p>Explain, evaluate, and compare functions.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>24. Explain why the x-coordinates of the points where the graphs of the equations $y = f(x)$ and $y = g(x)$ intersect are the solutions of the equation $f(x) = g(x)$. Limit to linear equations. [<i>Algebra I with Probability, 19</i>]</p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>Summary/Justification/Evidence</p>					
<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>					
<p>Overall Rating</p> <p style="text-align: center;">1 2 3 4</p>					

Algebra and Functions

<p>Explain, evaluate, and compare functions.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>25. Find approximate solutions by graphing the functions, making tables of values, or finding successive approximations, using technology where appropriate.</p> <p><i>Note: Include cases where $f(x)$ is linear and $g(x)$ is constant or linear.</i> <i>[Algebra I with Probability, 19 edited]</i></p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p>				
	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>	

Data Analysis, Statistics, and Probability

<p>Make inferences about a population using random sampling.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>26. Examine a sample of a population to generalize information about the population.</p> <ol style="list-style-type: none"> Differentiate between a sample and a population. Compare sampling techniques to determine whether a sample is random and thus representative of a population, explaining that random sampling tends to produce representative samples and support valid inferences. Determine whether conclusions and generalizations can be made about a population based on a sample. Use data from a random sample to draw inferences about a population with an unknown characteristic of interest, generating multiple samples to gauge variation and make predictions or conclusions about the population. Informally explain situations in which statistical bias may exist. <i>[Grade 7, 10]</i> 	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Overall Rating</p> <p>1 2 3 4</p>				

Data Analysis, Statistics, and Probability

<p>Make inferences from an informal comparison of two populations.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>27. Informally assess the degree of visual overlap of two numerical data distributions with similar variabilities, measuring the difference between the centers by expressing it as a multiple of a measure of variability. [<i>Grade 7, 11</i>]</p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p> <p>1 2 3 4</p>				

Data Analysis, Statistics, and Probability

<p>Make inferences from an informal comparison of two populations.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>28. Make informal comparative inferences about two populations using measures of center and variability and/or mean absolute deviation in context. <i>[Grade 7, 12]</i></p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p> <p style="text-align: center;">1 2 3 4</p>				

Data Analysis, Statistics, and Probability

<p>Investigate probability models.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>29. Use a number between 0 and 1 to represent the probability of a chance event occurring, explaining that larger numbers indicate greater likelihood of the event occurring, while a number near zero indicates an unlikely event. [<i>Grade 7, 13</i>]</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>Summary/Justification/Evidence</p>					
<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>					
<p>Overall Rating</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>	

Data Analysis, Statistics, and Probability

<p>Investigate probability models.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>30. Define and develop a probability model, including models that may or may not be uniform, where uniform models assign equal probability to all outcomes and non-uniform models involve events that are not equally likely.</p> <p>a. Collect and use data to predict probabilities of events.</p> <p>b. Compare probabilities from a model to observe frequencies, explaining possible sources of discrepancy. [Grade 7, 14]</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p>				
		<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>

Data Analysis, Statistics, and Probability

<p>Investigate probability models.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>31. Approximate the probability of an event by using data generated by a simulation (experimental probability) and compare it to theoretical probability.</p> <p>a. Observe the relative frequency of an event over the long run, using simulation or technology, and use those results to predict approximate relative frequency. [<i>Grade 7, 15</i>]</p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>Summary/Justification/Evidence</p>					
<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>					
<p>Overall Rating</p> <p style="text-align: center;">1 2 3 4</p>					

Data Analysis, Statistics, and Probability

<p>Investigate probability models.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>32. Find probabilities of simple and compound events through experimentation or simulation and by analyzing the sample space, representing the probabilities as percents, decimals, or fractions.</p> <p>a. Represent sample spaces for compound events using methods such as organized lists, tables, and tree diagrams, and determine the probability of an event by finding the fraction of outcomes in the sample space for which the compound event occurred</p> <p>b. Design and use a simulation to generate frequencies for compound events.</p> <p>c. Represent events described in everyday language in terms of outcomes in the sample space which composed the event. [<i>Grade 7, 16</i>]</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p> <p>1 2 3 4</p>				

Geometry and Measurement

<p>Construct and describe geometrical figures, analyzing relationships among them.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>33. Solve problems involving scale drawings of geometric figures including computation of actual lengths and areas from a scale drawing and reproduction of a scale drawing at a different scale. [Grade 7, 17]</p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
<p>Summary/Justification/Evidence</p>	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
<p>Overall Rating</p>	1	2	3	4	

Geometry and Measurement

<p>Construct and describe geometrical figures, analyzing relationships among them.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>34. Construct geometric shapes (freehand, using a ruler and a protractor, and using technology) given measurement constraints with an emphasis on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle. [Grade 7, 18]</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p> <p style="text-align: center;">1 2 3 4</p>				

Geometry and Measurement

<p>Construct and describe geometrical figures, analyzing relationships among them.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>35. Describe the two-dimensional figures created by slicing three-dimensional figures into plane sections. [<i>Grade 7, 19</i>]</p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>Summary/Justification/Evidence</p>					
<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>					
<p>Overall Rating</p> <p style="text-align: center;">1 2 3 4</p>					

Geometry and Measurement

<p>Solve real-world and mathematical problems involving angle measure, area, surface area, and volume.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>36. Explain the relationships among circumference, diameter, area, and radius of a circle to demonstrate understanding of formulas for the area and circumference of a circle.</p> <p>a. Informally derive the formula for area of a circle.</p> <p>b. Solve area and circumference problems in real-world and mathematical situations involving circles. [<i>Grade 7, 20</i>]</p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>Summary/Justification/Evidence</p>					
<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>					
<p>Overall Rating</p>					
<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>		

Geometry and Measurement

<p>Solve real-world and mathematical problems involving angle measure, area, surface area, and volume.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>37. Use facts about supplementary, complementary, vertical, and adjacent angles in multi-step problems to write and solve simple equations for an unknown angle in a figure. [<i>Grade 7, 21</i>]</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p> <p style="text-align: center;">1 2 3 4</p>				

Geometry and Measurement

<p>Solve real-world and mathematical problems involving angle measure, area, surface area, and volume.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>38. Analyze and apply properties of parallel lines cut by a transversal to determine missing angle measures.</p> <p>a. Use informal arguments to establish that the sum of the interior angles of a triangle is 180 degrees. [<i>Grade 8, 25</i>]</p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>Summary/Justification/Evidence</p>					
<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>					
<p>Overall Rating</p> <p style="text-align: center;">1 2 3 4</p>					

Geometry and Measurement

<p>Solve real-world and mathematical problems involving angle measure, area, surface area, and volume.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>39. Solve real-world and mathematical problems involving area, volume, and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right rectangular prisms. [<i>Grade 7, 22</i>]</p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>Summary/Justification/Evidence</p>					
<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>					
<p>Overall Rating</p> <p style="text-align: center;">1 2 3 4</p>					

Geometry and Measurement

<p>Solve real-world and mathematical problems involving angle measure, area, surface area, and volume.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>40. Informally derive the formulas for the volume of cones and spheres by experimentally comparing the volumes of cones and spheres with the same radius and height to a cylinder with the same dimensions. [<i>Grade 8, 29</i>]</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>40. Informally derive the formulas for the volume of cones and spheres by experimentally comparing the volumes of cones and spheres with the same radius and height to a cylinder with the same dimensions. [<i>Grade 8, 29</i>]</p>	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Summary/Justification/Evidence</p>				
	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p> <p style="text-align: center;">1 2 3 4</p>				

Geometry and Measurement

<p>Solve real-world and mathematical problems involving angle measure, area, surface area, and volume.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>41. Use formulas to calculate the volumes of three-dimensional figures to solve real-world problems. [<i>Grade 8, 30</i>]</p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>Summary/Justification/Evidence</p>					
<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>					
<p>Overall Rating</p> <p style="text-align: center;">1 2 3 4</p>					

Geometry and Measurement

Understand congruence and similarity using physical models or technology.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
<p>Students will:</p> <p>42. Verify experimentally the properties of rigid motions (rotations, reflections, and translations): lines are taken to lines, and line segments are taken to line segments of the same length; angles are taken to angles of the same measure; and parallel lines are taken to parallel lines.</p> <p>a. Given a pair of two-dimensional figures, determine if a series of rigid motions maps one figure onto the other, recognizing that if such a sequence exists the figures are congruent; describe the transformation sequence that verifies a congruence relationship. [Grade 8, 22]</p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary/Justification/Evidence				
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):				
	<p>Overall Rating</p> <p style="text-align: center;">1 2 3 4</p>				

Geometry and Measurement

<p>Understand congruence and similarity using physical models or technology.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>43. Use coordinates to describe the effect of transformations (dilations, translations, rotations, and reflections) on two- dimensional figures. [Grade 8, 23]</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p> <p>1 2 3 4</p>				

Geometry and Measurement

<p>Understand congruence and similarity using physical models or technology.</p>	<p>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</p>				
<p>Students will:</p> <p>44. Given a pair of two-dimensional figures, determine if a series of dilations and rigid motions maps one figure onto the other, recognizing that if such a sequence exists the figures are similar; describe the transformation sequence that exhibits the similarity between them. [Grade 8, 24]</p> <p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Important Mathematical Ideas</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>44. Given a pair of two-dimensional figures, determine if a series of dilations and rigid motions maps one figure onto the other, recognizing that if such a sequence exists the figures are similar; describe the transformation sequence that exhibits the similarity between them. [Grade 8, 24]</p>	<p>Skills and Procedures</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Mathematical Relationships</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>
	<p>Summary/Justification/Evidence</p>				
	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p>Overall Rating</p> <p>1 2 3 4</p>				

TEXTBOOK REVIEW FORM – MATHEMATICS – ADDITIONAL CRITERIA AND INDICATORS

Documenting Alignment to Additional Criteria and Indicators

Content

Criteria and Indicators	Summary and documentation of how the additional criteria and indicators are met. Cite examples from the materials.				
1. Content is designed for students of varied abilities and understanding.	Overall Rating	1	2	3	4
2. Content is free of bias and/or controversial information.	Overall Rating	1	2	3	4
3. Content includes strategies for vocabulary instruction and graphic organizers.	Overall Rating	1	2	3	4
4. Content includes assignments that encourage integration of other content areas to support a math concept/skill.	Overall Rating	1	2	3	4

Indicate the chapter(s), sections, and/or page(s) reviewed.	Summary/Justification/Evidence:
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TEXTBOOK REVIEW FORM – MATHEMATICS – ADDITIONAL CRITERIA AND INDICATORS

**Documenting Alignment to
Additional Criteria and Indicators**

Technology

Criteria and Indicators	Summary and documentation of how the additional criteria and indicators are met. Cite examples from the materials.				
1. Technology support and suggestions for appropriate use of multimedia resources are provided.	Overall Rating	1	2	3	4
2. Technology is integrated with student activities so that students collect, organize, analyze, and present data.	Overall Rating	1	2	3	4
3. Textbook and supplemental Contents are available online and/or on CD-ROM.	Overall Rating	1	2	3	4

<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Summary/Justification/Evidence:</p>
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TEXTBOOK REVIEW FORM – MATHEMATICS – ADDITIONAL CRITERIA AND INDICATORS

**Documenting Alignment to
Additional Criteria and Indicators**

Assessment

Criteria and Indicators	Summary and documentation of how the additional criteria and indicators are met. Cite examples from the materials.				
1. Some assessments are designed to measure student understanding above the knowledge level.	Overall Rating	1	2	3	4
2. Guidance is provided to teacher regarding how assessment information can be used to inform instruction.	Overall Rating	1	2	3	4
3. Rubrics are provided for grading some assignments.	Overall Rating	1	2	3	4
4. Some opportunities are provided for students to check their own understanding.	Overall Rating	1	2	3	4

<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Summary/Justification/Evidence:</p>
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TEXTBOOK REVIEW FORM – MATHEMATICS – ADDITIONAL CRITERIA AND INDICATORS

Documenting Alignment to Additional Criteria and Indicators

Assessment (Continued)

Criteria and Indicators	Summary and documentation of how the additional criteria and indicators are met. Cite examples from the materials.				
<p>5. Assessment activities examine the extent to which students can apply information to situations that require reasoning and creative thinking.</p>	Overall Rating	1	2	3	4
<p>6. Multiple means of assessments are used, informal as well as formal.</p>	Overall Rating	1	2	3	4
<p>7. Conceptual understanding and procedural knowledge are frequently assessed through tasks that ask students to apply information about a given concept in novel situations.</p>	Overall Rating	1	2	3	4

Indicate the chapter(s), sections, and/or page(s) reviewed.	Summary/Justification/Evidence:
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TEXTBOOK REVIEW FORM – MATHEMATICS – ADDITIONAL CRITERIA AND INDICATORS

**Documenting Alignment to
Additional Criteria and Indicators**

Instruction

Criteria and Indicators	Summary and documentation of how the additional criteria and indicators are met. Cite examples from the materials.				
<ol style="list-style-type: none"> 1. Teacher guide provides suggestions for how to demonstrate/model skills or use of knowledge. 2. Teacher guide offers alternative instructional strategies for advanced learners, struggling learners, ELL and Sp. Ed. 3. Teacher guide suggests multiple opportunities for students to demonstrate understanding. 4. Teacher guide provides opportunities for guided practice and scaffolded support. 5. Teacher guide includes suggestions to diagnose student errors, explanations of how these errors may be corrected, and how to further develop student ideas. 	Overall Rating	1	2	3	4
	Overall Rating	1	2	3	4
	Overall Rating	1	2	3	4
	Overall Rating	1	2	3	4
	Overall Rating	1	2	3	4
Indicate the chapter(s), sections, and/or page(s) reviewed.	Summary/Justification/Evidence:				