TEXTBOOK REVIEW FORM

MATHEMATICS

MATHEMATICAL INVESTIGATIONS

Textbook/Series:					
Edition Copyright Publisher					
Reviewed by:					
This form was based in part on:					
Instructional Materials Analysis and Selection					
Phase 3: Assessing Content Alignment to the Common Core Standards for Mathematics					
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STANDARDS FOR MATHEMATICAL PRACTICE – MATHEMATICS – GRADE K-12 – OVERALL

Textbook/Series:				
Edition	Copyright	Publisher		_
OVERALL RATING:		Weak (1-2) Moderate (2-3) Strong (3-4)	Comments:	
 Make sense of problems and solving them. Summary/Justification/Evid 	preserve in	Weak (1-2) Moderate (2-3) Strong (3-4)	 Reason abstractly and quantitatively. Summary/Justification/Evidence 	Weak (1-2) Moderate (2-3) Strong (3-4)
3. Construct viable arguments a the reasoning of others. Summary/Justification/Evid	Ind critique	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 strategi Summary/Justification/Evid	ically. lence:	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 stru Summary/Justification/Evid	Jeture.	Weak (1-2) Moderate (2-3) Strong (3-4)	 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.

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



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.



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



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



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



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



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*.



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.



TEXTBOOK REVIEW FORM – MATHEMATICS – OVERALL COLLEGE- AND CAREER-READY STANDARDS & OTHER CRITERIA – GRADE K

Textbook/Series:			
Edition Copyright	Publisher		
OVERALL RATING:	Weak (1-2) Moderate (2-3) Strong (3-4)	Important Mathematical Ideas: Summary/Justification/Evidence:	Weak (1-2) Moderate (2-3) Strong (3-4)
Skills and Procedures: Summary/Justification/Evidence:	Weak (1-2) Moderate (2-3) Strong (3-4)	Mathematical Relationships: Summary/Justification/Evidence	Weak (1-2) Moderate (2-3) Strong (3-4)
Content: Summary/Justification/Evidence:	Weak (1-2) Moderate (2-3) Strong (3-4)	Instruction: Summary/Justification/Evidence:	Weak (1-2) Moderate (2-3) Strong (3-4)
Assessment: Summary/Justification/Evidence:	Weak (1-2) Moderate (2-3) Strong (3-4)	Technology: Summary/Justification/Evidence:	Weak (1-2) Moderate (2-3) Strong (3-4)

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The Charles A. Dana Center

Students will:

	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
 Critique ancient numeration systems and applications, including astronomy and the development and use of money and calendars. 	Important Mathematical Ideas 1 2 3 4
	Skills and Procedures
	Mathematical Relationships 1 2 3 4
	Summary/Justification/Evidence
Indicate the chapter(s), sections, and/or page(s) reviewed.	
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating

Students will:

	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
 a. Determine relationships among mathematical achievements of ancient peoples, including the Sumerians, Babylonians, Egyptians, Mesopotamians, Chinese, Aztecs, and Incas. 	Important Mathematical Ideas 1 2 3 4
	Skills and Procedures
	Mathematical Relationships 1 2 3 4
	Summary/Justification/Evidence
Indicate the chapter(s), sections, and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating

	Summary and documentation of how Cite examples from the materials.	the domain, cluster, a	nd standard are) met.
b. Explain origins of the Hindu-Arabic numeration system . Example: Perform addition and subtraction in both the Hindu-Arabic and the Roman numeration systems to compare place value	Important Mathematical Ideas	2	ω	+ 4 ▼
and place holders.	Skills and Procedures	2	ω —	↓ 4 ▼
	Mathematical Relationships	2	ω —	+ 4
	Summary/Justification/Evidence			
Indicate the chapter(s), sections, and/or page(s) reviewed.	Portions of the domain, cluster, and s in the instructional materials (if any):	tandard that are missi	ing or not well c	leveloped
	Overall Rating	2	ω	↓ ↓ 4 ▼
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Students will:

	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
 Analyze mathematical relationships in music to interpret frequencies of musical notes and to compare mathematical structures of various musical instruments. 	Important Mathematical Ideas
Examples: Compare frequencies of notes exactly one octave apart on the musical scale; using frequencies and wave patterns of middle C, E above middle C, and G above middle C to explain why the C major chord is harmonious.	Skills and Procedures
	Mathematical Relationships
	Summary/Justification/Evidence
	in the instructional materials (if any):
Indicate the chapter(s), sections, and/or page(s) reviewed.	
	Overall Rating

Students will:

	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
 a Determine lengths of strings necessary to produce harmonic tones as in Pythagorean tuning. 	Important Mathematical Ideas
	Skills and Procedures
	Mathematical Relationships
	Summary/Justification/Evidence
Indicate the chapter(s), sections, and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating I

Students will:

	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
 3. Use special numbers, including e, i, π, and the golden ratio, to solve application-based problems. 	Important Mathematical Ideas 1 2 3 4
	Skills and Procedures 1 2 3 4
	Mathematical Relationships 1 2 3 4
	Summary/Justification/Evidence
Indicate the chapter(s), sections, and/or page(s) reviewed.	
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating

NUMBER AND QUANTITY					
	Summary and documentation of hc Cite examples from the materials.	w the domain	ı, cluster, and	d standard ar	re met.
a. Identify transcendental numbers.	Important Mathematical Ideas	- +	. —	ο <u>—</u>	→ ↓
Example: Calculate e to ten decimal places using a summation with $\frac{1}{n!}$.		-	٢	ر	t
	Skills and Procedures	- +	2 -	ω —	+ 4
	Mathematical Relationships		22 —	ω —	4
	Summary/Justification/Evidence				
Indicate the chapter(s), sections, and/or page(s) reviewed.	Portions of the domain, cluster, an in the instructional materials (if any	d standard that	at are missin	g or not well	developed
	Overall Rating	- +	N —	ω —	4
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Students WII: NUMBER AND QUANTITY				
	Summary and documentation of how the Cite examples from the materials.	he domain, cluster, and	d standard are	met.
4. Explain the development and uses of sets of numbers, including complex, real, rational, irrational, integer, whole, and natural numbers. \square	Important Mathematical Ideas	2	ω	↓ 4
	Skills and Procedures	2	ω	+ 4 ▼
	Mathematical Relationships	2	ω —	+ 4 ▼
	Summary/Justification/Evidence			
Indicate the chapter(s), sections, and/or page(s) reviewed.	Portions of the domain, cluster, and s in the instructional materials (if any):	andard that are missin	g or not well d	eveloped
	Overall Rating	2	ω	↓ ↓ 4
The Charles A. Dana Center		Adapted for Alabama S	tate Department	of Education

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Students will:

	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
 a. Analyze contributions to the number system by well-known mathematicians, including Archimedes, John Napier, René Descartes, Sir Isaac Newton, Johann Carl Friedrich Gauss, and Julius Wilhelm Richard Dedekind 	Important Mathematical Ideas
Example: Plot solutions to the polynomial equation, $x^2 - 6x + 11 = 0$, on the Gaussian plane.	Skills and Procedures
	Mathematical Relationships 1 2 3 4
	Summary/Justification/Evidence
Indicate the chapter(s), sections, and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating

Students will:

	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
5. Identify beginnings of algebraic symbolism and structure through the works of European mathematicians.	Important Mathematical Ideas
	Skills and Procedures
	Mathematical Relationships
	Summary/Justification/Evidence
Indicate the chapter(s) sections, and/or nage(s) reviewed	
indicate the chapter(s), sections, and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating

Students will:

	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
a. Create a Fibonacci sequence when given two initial integers.	Important Mathematical Ideas
	Skills and Procedures 4 1 2 3 4
	Mathematical Relationships
	Summary/Justification/Evidence
Indicate the chapter(s), sections, and/or page(s) reviewed.	
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating

Students will:

	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
b. Investigate Tartaglia's formula for solving cubic equations.	Important Mathematical Ideas 1 2 3 4
	Skills and Procedures
	Mathematical Relationships 1 2 3 4
	Summary/Justification/Evidence
Indicate the chapter(s), sections, and/or page(s) reviewed.	
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating

ALGEBRA	Summary and documentation of how th Cite examples from the materials.	e domain, cluster, and st	andard are met.
6. Explain the development and applications of logarithms, including contributions of John Napier, Henry Briggs, and the Bernoulli family. \square	Important Mathematical Ideas	2	ω + 4 +
	Skills and Procedures	1 - 2	+ ω + 4
	Mathematical Relationships	2	α 4 4
	Summary/Justification/Evidence		
Indicate the chapter(s), sections, and/or page(s) reviewed.	Portions of the domain, cluster, and sta in the instructional materials (if any):	ndard that are missing or	r not well develo
	Overall Rating	2	μ - ω - μ - μ
The Charles A. Dana Center 2:	3 -	Adapted for Alabama State	Department of Educ

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	Summary and documentation of how	the domain, cluster, a	nd standard are	met.
7. Justify the historical significance of the development of multiple perspectives in mathematics. \Box	Important Mathematical Ideas	2	ω	↓ ↓
Example: Relate the historical development of multiple perspectives to the works of Sir Isaac Newton and Gottfried Wilhelm von Leibniz in the foundations of calculus.	Skills and Procedures	2	ω	+ 4 ▼
	Mathematical Relationships	2	ω	+ 4 ▼
	Summary/Justification/Evidence			
Indicate the chapter(s), sections, and/or page(s) reviewed.	Portions of the domain, cluster, and in the instructional materials (if any)	tandard that are missi	ng or not well d	eveloped
	Overall Rating	2	ω	4

1

Students will:

	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
a. Summarize the significance of René Descartes' Cartesian coordinate system.	Important Iathematical Ideas 1 2 3 4
	Skills and Procedures
	Mathematical Relationships 1 2 3 4
	Summary/Justification/Evidence
Indicate the chapter(s), sections, and/or page(s) reviewed.	
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating

Students will:

	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
b. Interpret the foundation of analytic geometry with regard to geometric curves and algebraic relationships.	Important Mathematical Ideas
	Skills and Procedures
	Mathematical Relationships
	Summary/Justification/Evidence
Indicate the chapter(s), sections, and/or page(s) reviewed.	Portions of the domain elector, and standard that are missing or not well developed
	in the instructional materials (if any):
	Overall Rating



TEXTBOOK REVIEW FORM - MATHEMATICS

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Students will:

	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
 9. Analyze works of visual art and architecture for mathematical relationships. Examples: Use Leonardo da Vinci's Vitruvian Man to explore the 	Important Mathematical Ideas 1 2 3 4
golden ratio. Identify mathematical patterns in Maurits Cornelis Escher's drawings, including the use of tessellations in art, quilting, paintings, pottery, and architecture.	Skills and Procedures
	Mathematical Relationships 1 2 3 4
	Summary/Justification/Evidence
Indicate the chapter(s), sections, and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating

Students will:

	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
a. Summarize the historical development of perspective in art and architecture.	Importan Mathematical Ideas
	Skills and Procedures
	Mathematical Relationships 1 2 3 4
	Summary/Justification/Evidence
Indicate the chapter(s), sections, and/or page(s) reviewed.	
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating

Students will:

	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
10. Determine the mathematical impact of the ancient Greeks, including Archimedes, Eratosthenes, Euclid, Hypatia, Pythagoras, and the Pythagorean Society.	Important Mathematical Ideas
Example: Use Euclid's proposition to inscribe a regular hexagon within a circle.	Skills and Procedures
	Mathematical Relationships
	Summary/Justification/Evidence
Indicate the chapter(s), sections, and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating

Students will:

	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
a. Construct multiple proofs of the Pythagorean Theorem.	Important Mathematical Ideas 1 2 3 4
	Skills and Procedures
	Mathematical Relationships 1 2 3 4
	Summary/Justification/Evidence
Indicate the chapter(s), sections, and/or page(s) reviewed.	
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating

Students will:

	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
 b. Solve problems involving figurate numbers, including triangular and pentagonal numbers. Example: Write a sequence of the first 10 triangular numbers and 	Important Mathematical Ideas
nypotnesize a formula for finding the nth triangular number.	Skills and Procedures
	Mathematical Relationships 1 2 3 4
	Summary/Justification/Evidence
indicate the chapter(s), sections, and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating

Students will:

GEOMETRY

	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
11. Describe the development of mathematical tools and their applications.	Important Mathematical Ideas 1 2 3 4
Examples: Use knotted ropes for counting; Napier's bones for multiplication; a slide rule for multiplying and calculating values of trigonometric, exponential, and logarithmic functions; and a graphing calculator for analyzing functions graphically and numerically.	Skills and Procedures
	Mathematical Relationships Image: Constraint of the second seco
	Summary/Justification/Evidence Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
Indicate the chapter(s), sections, and/or page(s) reviewed.	
	Overall Rating Image: Constraint of the second

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Students will:

STATISTICS AND PROBABILITY

	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
12. Summarize the history of probability, including the works of Blaise Pascal; Pierre de Fermat; Abraham de Moivre; and Pierre-Simon, marquis de Laplace.	Important Mathematical Ideas				
Example: Discuss the impact of probability on gaming, economics, and insurance.	Skills and Procedures				
	Mathematical Relationships				
	Summary/Justification/Evidence				
Indicate the chapter(s), sections, and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):				
	Overall Rating				

Documenting Alignment to Additional Criteria and Indicators

Content

Criter	a and Indicators	Summary and documentation of met. Cite examples from the ma	f how th aterials.	ne addition	al criteria a	and indica	tors are
1.	Content is designed for students of varied abilities and understanding.	Overall Rating	←	1	2	3	→
2.	Content is free of bias and/or controversial information.	Overall Rating	←	1	2	3	→
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	e the chapter(s), sections, and/or page(s) reviewed.	Summary/Justification/Evidence:					

Documenting Alignment to Additional Criteria and Indicators

Technology

Criteria and IndicatorsSummary and documentation of how the additional criteria and indicators ar met. Cite examples from the materials.						tors are
 Technology support and suggestions for appropriate use of multimedia resources are provided. 	Overall Rating	•	1	2	3 4	→ 1
 Technology is integrated with student activities so that students collect, organize, analyze, and present data. 	Overall Rating	←	1	2	 3 ²	→
 Textbook and supplemental Contents are available online and/or on CD-ROM. 	Overall Rating	•	1	2	3	↓ → 4
Indicate the chapter(s), sections, and/or page(s) reviewed.	Summary/Justification/Evidence:					

Documenting Alignment to Additional Criteria and Indicators

Assessment

Criteria and IndicatorsSummary and documentation of how the additional criteria and indicators met. Cite examples from the materials.					tors are		
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	↓ →→
Indicate t	he chapter(s), sections, and/or page(s) reviewed.	Summary/Justification/Evidence:					

Documenting Alignment to Additional Criteria and Indicators

Assessment (Continued)

Criteria	and Indicators	Summary and do met. Cite examp	ocumentation of les from the ma	how th terials.	e addition	al criteria	and indi	cators ar	·e
5.	Assessment activities examine the extent to which students can apply information to situations that require reasoning and creative thinking.	Overall Ratir	ng	•	1	2	3	- ↓ → 4	
6.	Multiple means of assessments are used, informal as well as formal.	Overall Ratir	ng	•	1	2	3	→ 4	
7.	Conceptual understanding and procedural knowledge are frequently assessed through tasks that ask students to apply information about a given concept in novel situations.	Overall Ratir	ıg	•	1	2	3	4	
Indicate t	he chapter(s), sections, and/or page(s) reviewed.	Summary/Justifica	tion/Evidence:						

Documenting Alignment to Additional Criteria and Indicators

Instruction

Criter	ia and Indicators	Summary and documentation of met. Cite examples from the ma	f how tl aterials	he addition	nal criteria	and indic	ators are
1.	Teacher guide provides suggestions for how to demonstrate/model skills or use of knowledge.	Overall Rating	•	1	2	3	↓ → 4
2.	Teacher guide offers alternative instructional strategies for advanced learners, struggling learners, ELL and Sp. Ed.	Overall Rating	•	1	2	3	↓ → 4
3.	Teacher guide suggests multiple opportunities for students to demonstrate understanding.	Overall Rating	•	1	2	3	→ 4
4.	Teacher guide provides opportunities for guided practice and scaffolded support.	Overall Rating	•	1	2	3	- ↓ → 4
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
Indicat	e the chapter(s), sections, and/or page(s) reviewed.	Summary/Justification/Evidence:					