

# TEXTBOOK REVIEW FORM

**MATHEMATICS**

**PRECALCULUS**

**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: \_\_\_\_\_

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

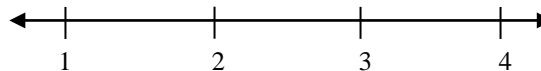
These students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze givens, constraints, relationships, and goals. They make conjectures about the form and meaning of the solution and plan a solution pathway rather than simply jumping into 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.

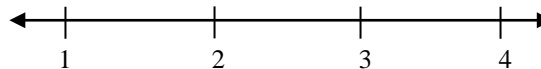
Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to bear on problems involving quantitative relationships. One is the ability to *decontextualize*, to abstract a given situation and represent it symbolically 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.**

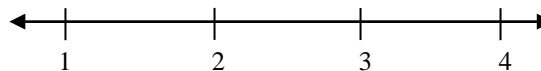
These students understand and use stated assumptions, definitions, and previously established results in constructing arguments. They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, 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



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

**Documenting Alignment to the Standards for Mathematical Practice**

**Mathematically proficient students:**

**4. Model with mathematics.**

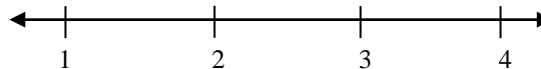
These students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, students might apply proportional reasoning to plan a school event 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.**

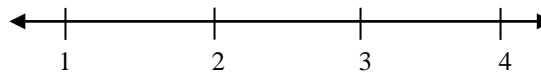
Mathematically proficient students consider available tools when solving a mathematical problem. These tools might include pencil and paper, concrete models, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software. Proficient 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.**

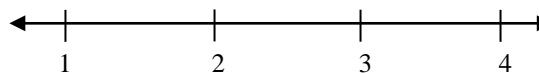
These students try to communicate precisely to others. They try to use clear definitions in discussion with others and in their own reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. Mathematically proficient students are careful 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.

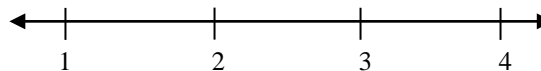
Mathematically proficient students look closely to discern a pattern or structure. Young students, for example, might notice that three and seven more is the same amount as seven and three more, or they may sort a collection of shapes according to how many sides the shapes have. Later, students will see  $7 \times 8$  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  $2 \times 7$  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



Documenting Alignment to the Standards for Mathematical Practice

Mathematically proficient students:

8. Look for and express regularity in repeated reasoning.

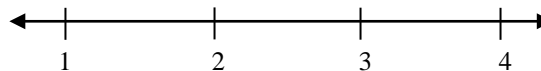
They notice if calculations are repeated, and look both for general methods and for shortcuts. Upper elementary students might notice when dividing 25 by 11 that they are repeating the same calculations over and over again and conclude they have a repeating decimal. By paying attention to the calculation 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 – GEOMETRY**

Textbook/Series: \_\_\_\_\_

Edition: \_\_\_\_\_ Copyright: \_\_\_\_\_ Publisher: \_\_\_\_\_

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

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## Number and Quantity

The Complex Number System	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
<p>Students will:</p> <ol style="list-style-type: none"> <li>1. Define the constant <math>e</math> in a variety of contexts.  <i>Example: the total interest earned if a 100% annual rate is continuously compounded.</i> <ol style="list-style-type: none"> <li>a. Explore the behavior of the function <math>y=e^x</math> and its applications.</li> <li>b. Explore the behavior of <math>\ln(x)</math>, the logarithmic function with base <math>e</math>, and its applications.</li> </ol> </li> </ol>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<p><b>Overall Rating</b></p> <p style="text-align: center;">1                      2                      3                      4</p>				

<b>The Complex Number System</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>2. Find the conjugate of a complex number; use conjugates to find moduli and quotients of complex numbers.</p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
<b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b>	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>				
		1	2	3	4

<b>The Complex Number System</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>3. Represent complex numbers on the complex plane in rectangular and polar form (including real and imaginary numbers), and explain why the rectangular and polar forms of a given complex number represent the same number.</p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
<b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b>	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>				
		1	2	3	4

<b>The Complex Number System</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>4. Represent addition, subtraction, multiplication, and conjugation of complex numbers geometrically on the complex plane; use properties of this representation for computation.  <i>Example: <math>(-1 + \sqrt{3}ii)^3 = 8</math> because <math>(-1 + \sqrt{3}ii)</math> has modulus 2 and argument <math>120^\circ</math>.</i></p> <p><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<p><b>Overall Rating</b></p> <p style="text-align: center;">1                      2                      3                      4</p>				

<b>The Complex Number System</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>5. Calculate the distance between numbers in the complex plane as the modulus of the difference, and the midpoint of a segment as the average of the numbers at its endpoints.</p> <p><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>  <div style="display: flex; justify-content: space-around; width: 100%;"> <span>1</span> <span>2</span> <span>3</span> <span>4</span> </div>				



<b>The Complex Number System</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>6. Analyze possible zeros for a polynomial function over the complex numbers by applying the Fundamental Theorem of Algebra, using a graph of the function, or factoring with algebraic identities.</p> <p><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>  <div style="display: flex; justify-content: space-around; width: 100%;"> <span>1</span> <span>2</span> <span>3</span> <span>4</span> </div>				

<b>Limits</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>7. Determine numerically, algebraically, and graphically the limits of functions at specific values and at infinity.</p> <p>a. Apply limits of functions at specific values and at infinity in problems involving convergence and divergence.</p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
<b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b>	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>				
		1	2	3	4

Vector and Matrix Quantities	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
<p>Students will:</p> <p>8. Explain that vector quantities have both magnitude and direction. Represent vector quantities by directed line segments, and use appropriate symbols for vectors and their magnitudes. <i>Examples: <math>v</math>, <math> v </math>, <math>\ v\ </math>, <math>v</math></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
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>  <div style="display: flex; justify-content: space-around; width: 100%;"> <span>1</span> <span>2</span> <span>3</span> <span>4</span> </div>				

<b>Vector and Matrix Quantities</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>9. Find the components of a vector by subtracting the coordinates of an initial point from the coordinates of a terminal point.</p> <p><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>				
		1	2	3	4

<b>Vector and Matrix Quantities</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>10. Solve problems involving velocity and other quantities that can be represented by vectors.</p> <p><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>				
	1	2	3	4	

<b>Vector and Matrix Quantities</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>11. Find the scalar (dot) product of two vectors as the sum of the products of corresponding components and explain its relationship to the cosine of the angle formed by two vectors.</p> <p><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>				
		1	2	3	4

Vector and Matrix Quantities	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
<p>Students will:</p> <p>12. Add and subtract vectors.</p> <ol style="list-style-type: none"> <li>Add vectors end-to-end, component-wise, and by the parallelogram rule, understanding that the magnitude of a sum of two vectors is not always the sum of the magnitudes.</li> <li>Given two vectors in magnitude and direction form, determine the magnitude and direction of their sum.</li> <li>Explain vector subtraction, <math>\mathbf{v} - \mathbf{w}</math>, as <math>\mathbf{v} + (-\mathbf{w})</math>, where <math>-\mathbf{w}</math> is the additive inverse of <math>\mathbf{w}</math>, with the same magnitude as <math>\mathbf{w}</math> and pointing in the opposite direction. Represent vector subtraction graphically by connecting the tips in the appropriate order, and perform vector subtraction component-wise.</li> </ol>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
<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><b>Overall Rating</b></p> <p>1                      2                      3                      4</p>				

Vector and Matrix Quantities	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
<p>Students will:</p> <p>13. Multiply a vector by a scalar.</p> <p>a. Represent scalar multiplication graphically by scaling vectors and possibly reversing their direction; perform scalar multiplication component-wise. Example: <math>c(v_x, v_y) = (cv_x, cv_y)</math></p> <p>b. Compute the magnitude of a scalar multiple <math>cv</math> using <math>\ cv\  =  c v</math>. Compute the direction of <math>cv</math> knowing that when <math> c v \neq 0</math>, the direction of <math>cv</math> is either along <math>v</math> (for <math>c &gt; 0</math>) or against <math>v</math> (for <math>c &lt; 0</math>).</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
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>  <div style="display: flex; justify-content: space-around; width: 100%;"> <span>1</span> <span>2</span> <span>3</span> <span>4</span> </div>				



<b>Vector and Matrix Quantities</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>14. Multiply a vector (regarded as a matrix with one column) by a matrix of suitable dimensions to produce another vector. Work with matrices as transformations of vectors.</p> <p><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>				
		1	2	3	4

# Algebra

Seeing Structure in Expressions	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
<p>Students will:</p> <p>15. Derive the formula for the sum of a finite geometric series (when the common ratio is not 1), and use the formula to solve problems, extending to infinite geometric series.  <i>Examples: calculate mortgage payments; determine the long-term level of medication if a patient takes 50 mg of a medication every 4 hours, while 70% of the medication is filtered out of the patient's blood.</i></p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
<p><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	<p><b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b></p>				
	<p><b>Overall Rating</b></p> <p style="text-align: center;">1                      2                      3                      4</p>				

Arithmetic with Polynomials and Rational Expressions	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
<p>Students will:</p> <p>16. Derive and apply the Remainder Theorem: For a polynomial <math>p(x)</math> and a number <math>a</math>, the remainder on division by <math>x - a</math> is <math>p(a)</math>, so <math>p(a) = 0</math> if and only if <math>(x - a)</math> is a factor of <math>p(x)</math>.</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
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>				
	1	2	3	4	

Arithmetic with Polynomials and Rational Expressions	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
<p>Students will:</p> <p>17. Know and apply the Binomial Theorem for the expansion of <math>(x + y)^n</math> in powers of <math>x</math> and <math>y</math> for a positive integer, <math>n</math>, where <math>x</math> and <math>y</math> are any numbers.</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
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>				
	1	2	3	4	

Arithmetic with Polynomials and Rational Expressions	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
<p>Students will:</p> <p>18. Rewrite simple rational expressions in different forms; write <math>a(x)/b(x)</math> in the form <math>q(x) + r(x)/b(x)</math>, where <math>a(x)</math>, <math>b(x)</math>, <math>q(x)</math>, and <math>r(x)</math> are polynomials with the degree of <math>r(x)</math> less than the degree of <math>b(x)</math>, using inspection, long division, or, for the more complicated cases, a computer algebra system.</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
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>  <div style="display: flex; justify-content: space-around; width: 100%;"> <span>1</span> <span>2</span> <span>3</span> <span>4</span> </div>				

Arithmetic with Polynomials and Rational Expressions	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
<p>Students will:</p> <p>19. Add, subtract, multiply, and divide rational expressions.</p> <p>a. Explain why rational expressions form a system analogous to the rational numbers, which is closed under addition, subtraction, multiplication, and division by a non-zero rational expression.</p> <p><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>				
	1	2	3	4	

Reasoning with 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. Explain each step in solving an equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a clear-cut solution. Construct a viable argument to justify a solution method. <b>Include equations that may involve linear, quadratic, polynomial, exponential, logarithmic, absolute value, radical, rational, piecewise, and trigonometric functions, and their inverses.</b></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>	<p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p><b>Overall Rating</b></p> <p>1                      2                      3                      4</p>				

Reasoning with 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>21. Solve simple rational equations in one variable, and give examples showing how extraneous solutions may arise.</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
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>				
	1	2	3	4	



<b>Reasoning with Equations and Inequalities</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>22. Represent a system of linear equations as a single matrix equation in a vector variable.</p> <p><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>				
		1	2	3	4

<b>Reasoning with Equations and Inequalities</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>23. Find the inverse of a matrix if it exists and use it to solve systems of linear equations (using technology for matrices of dimension 3 x 3 or greater).</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
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>				
	1	2	3	4	

# Functions

Interpreting Functions	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
<p>Students will:</p> <p>24. Compare and contrast families of functions and their representations algebraically, graphically, numerically, and verbally in terms of their key features. <i>Note: Key features include intercepts; intervals where the function is increasing, decreasing, positive, or negative; maximums and minimums; symmetries (including even and odd); end behavior; asymptotes; and periodicity. Families of functions include but are not limited to linear, quadratic, polynomial, exponential, logarithmic, absolute value, radical, rational, piecewise, trigonometric, and their inverses.</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><b>Summary/Justification/Evidence</b></p> <p>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</p>				
	<p><b>Overall Rating</b></p> <p>1                      2                      3                      4</p>				

Interpreting Functions	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
<p>Students will:</p> <p>25. Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval. Estimate the rate of change from a graph. <b>Extend from polynomial, exponential, logarithmic, and radical to rational and all trigonometric functions.</b></p> <p>a. Find the difference quotient <math>\frac{f(x+\Delta x)-f(x)}{\Delta x}</math> of a function and use it to evaluate the average rate of change at a point.</p> <p>b. Explore how the average rate of change of a function over an interval (presented symbolically or as a table) can be used to approximate the instantaneous rate of change at a point as the interval decreases.</p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<p><b>Overall Rating</b></p> <p>1                      2                      3                      4</p>				

<b>Interpreting Functions</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>26. Graph functions expressed symbolically and show key features of the graph, by hand and using technology. Use the equation of functions to identify key features in order to generate a graph.</p> <ol style="list-style-type: none"> <li>Graph rational functions, identifying zeros and asymptotes when suitable factorizations are available, and showing end behavior.</li> <li>Graph trigonometric functions and their inverses, showing period, midline, amplitude, and phase shift.</li> </ol> <p><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<p><b>Overall Rating</b></p> <p>1                      2                      3                      4</p>				

<b>Building Functions</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>27. Compose functions. <b>Extend to polynomial, trigonometric, radical, and rational functions.</b>  <i>Example: If <math>T(y)</math> is the temperature in the atmosphere as a function of height, and <math>h(t)</math> is the height of a weather balloon as a function of time, then <math>T(h(t))</math> is the temperature at the location of the weather balloon as a function of time.</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
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>				
		1	2	3	4

<b>Building Functions</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>28. Find inverse functions.</p> <p>a. Given that a function has an inverse, write an expression for the inverse of the function.  <i>Example: Given <math>f(x) = 2x^3</math> or <math>f(x) = (x + 1)/(x - 1)</math> for <math>x \neq 1</math> find <math>f^{-1}(x)</math>.</i></p> <p>b. Verify by composition that one function is the inverse of another.</p> <p>c. Read values of an inverse function from a graph or a table, given that the function has an inverse.</p> <p>d. Produce an invertible function from a non-invertible function by restricting the domain.</p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
<b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b>	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>				
		1	2	3	4

<b>Building Functions</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>29. Use the inverse relationship between exponents and logarithms to solve problems involving logarithms and exponents. <b>Extend from logarithms with base 2 and 10 to a base of <math>e</math>.</b></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
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>				
		1	2	3	4



<b>Building Functions</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>30. Identify the effect on the graph of replacing <math>f(x)</math> by <math>f(x) + k</math>, <math>k \cdot f(x)</math>, <math>f(k \cdot x)</math>, and <math>f(x + k)</math> for specific values of <math>k</math> (both positive and negative); find the value of <math>k</math> given the graphs. <b>Extend the analysis to include all trigonometric, rational, and general piecewise-defined functions with and without technology.</b>  <i>Example: Describe the sequence of transformations that will relate <math>y = \sin(x)</math> and <math>y = 2\sin(3x)</math>.</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
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>				
		1	2	3	4

Building Functions	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
<p>Students will:</p> <p>31. Graph conic sections from second-degree equations, extending from circles and parabolas to ellipses and hyperbolas, using technology to discover patterns.</p> <p>a. Graph conic sections given their standard form. Example: The graph of <math>\frac{x^2}{9} + \frac{(y-3)^2}{4} = 1</math> will be an ellipse centered at (0,3) with major axis 3 and minor axis 2, while the graph of <math>\frac{x^2}{9} - \frac{(y-3)^2}{4} = 1</math> will be a hyperbola centered at (0,3) with asymptotes with slope <math>\pm 3/2</math>.</p> <p>b. Identify the conic section that will be formed, given its equation in general form. <i>Example: <math>5y^2 - 25x^2 = -25</math> will be a hyperbola.</i></p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
<p><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<p><b>Overall Rating</b></p> <p>1                      2                      3                      4</p>				

<b>Trigonometric Functions</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>32. Solve application-based problems involving parametric and polar equations.</p> <p>a. Graph parametric and polar equations.</p> <p>b. Convert parametric and polar equations to rectangular form.</p> <p><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
<b>Summary/Justification/Evidence</b>					
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>					
<p><b>Overall Rating</b></p> <p style="text-align: center;">1                      2                      3                      4</p>					

<b>Trigonometric Functions</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>33. Use special triangles to determine geometrically the values of sine, cosine, and tangent for <math>\pi/3</math>, <math>\pi/4</math>, and <math>\pi/6</math>, and use the unit circle to express the values of sine, cosine, and tangent for <math>\pi - x</math>, <math>\pi + x</math>, and <math>2\pi - x</math> in terms of their values for <math>x</math>, where <math>x</math> is any real number.</p> <p><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>					
<p><b>Overall Rating</b></p> <p style="text-align: center;">1                      2                      3                      4</p>					

<b>Trigonometric Functions</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>34. Use the unit circle to explain symmetry (odd and even) and periodicity of trigonometric functions.</p> <p><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>				
		1	2	3	4

<b>Trigonometric Functions</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>35. Demonstrate that restricting a trigonometric function to a domain on which it is always increasing or always decreasing allows its inverse to be constructed.</p> <p><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>				
		1	2	3	4

<b>Trigonometric Functions</b>	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>				
<p>Students will:</p> <p>36. Use inverse functions to solve trigonometric equations that arise in modeling contexts; evaluate the solutions using technology, and interpret them in terms of the context.</p> <p><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
	<b>Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):</b>				
	<b>Overall Rating</b>				
		1	2	3	4

Trigonometric Functions	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
<p>Students will:</p> <p>37. Use trigonometric identities to solve problems.</p> <ol style="list-style-type: none"> <li>Use the Pythagorean identity <math>\sin^2(\theta) + \cos^2(\theta) = 1</math> to derive the other forms of the identity. Example: <math>1 + \cot^2(\theta) = \csc^2(\theta)</math></li> <li>Use the angle sum formulas for sine, cosine, and tangent to derive the double angle formulas.</li> <li>Use the Pythagorean and double angle identities to prove other simple identities.</li> </ol>	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	<b>Summary/Justification/Evidence</b>				
<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><b>Overall Rating</b></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.	<b>Overall Rating</b> 1        2            3        4
2. Content is free of bias and/or controversial information.	<b>Overall Rating</b> 1        2            3        4
3. Content includes strategies for vocabulary instruction and graphic organizers.	<b>Overall Rating</b> 1        2            3        4
4. Content includes assignments that encourage integration of other content areas to support a math concept/skill.	<b>Overall Rating</b> 1        2            3        4
<b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b>	<b>Summary/Justification/Evidence:</b>

# 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.
<p>1. Technology support and suggestions for appropriate use of multimedia resources are provided.</p>	<p><b>Overall Rating</b>                      1            2            3            4</p>
<p>2. Technology is integrated with student activities so that students collect, organize, analyze, and present data.</p>	<p><b>Overall Rating</b>                      1            2            3            4</p>
<p>3. Textbook and supplemental Contents are available online and/or on CD-ROM.</p>	<p><b>Overall Rating</b>                      1            2            3            4</p>
<p><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	<p><b>Summary/Justification/Evidence:</b></p>

# 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.	<b>Overall Rating</b>	1	2	3	4
2. Guidance is provided to teacher regarding how assessment information can be used to inform instruction.	<b>Overall Rating</b>	1	2	3	4
3. Rubrics are provided for grading some assignments.	<b>Overall Rating</b>	1	2	3	4
4. Some opportunities are provided for students to check their own understanding.	<b>Overall Rating</b>	1	2	3	4
<b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b>	<b>Summary/Justification/Evidence:</b>				

# 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>	<p style="text-align: center;"><b>Overall Rating</b></p> <p style="text-align: center;">1            2            3            4</p>
<p>6. Multiple means of assessments are used, informal as well as formal.</p>	<p style="text-align: center;"><b>Overall Rating</b></p> <p style="text-align: center;">1            2            3            4</p>
<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>	<p style="text-align: center;"><b>Overall Rating</b></p> <p style="text-align: center;">1            2            3            4</p>
<p><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	<p><b>Summary/Justification/Evidence:</b></p>

# 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.				
1. Teacher guide provides suggestions for how to demonstrate/model skills or use of knowledge.	<b>Overall Rating</b>	1	2	3	4
2. Teacher guide offers alternative instructional strategies for advanced learners, struggling learners, ELL and Sp. Ed.	<b>Overall Rating</b>	1	2	3	4
3. Teacher guide suggests multiple opportunities for students to demonstrate understanding.	<b>Overall Rating</b>	1	2	3	4
4. Teacher guide provides opportunities for guided practice and scaffolded support.	<b>Overall Rating</b>	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.	<b>Overall Rating</b>	1	2	3	4
<b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b>	<b>Summary/Justification/Evidence:</b>				