

# TEXTBOOK REVIEW FORM

## MATHEMATICS

### DISCRETE MATHEMATICS

**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*

A project of

**The Charles A. Dana Center**

At the University of Texas at Austin

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*Adapted for Alabama State Department of Education*

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

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

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

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

**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.

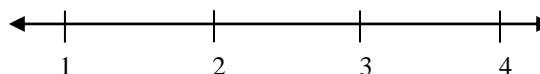
These students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze givens, constraints, relationships, and goals. They make conjectures about the form and meaning of the solution and plan a solution pathway rather than simply jumping into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



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

## Documenting Alignment to the Standards for Mathematical Practice

Mathematically proficient students:

### 2. Reason abstractly and quantitatively.

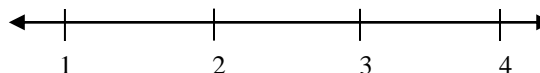
Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to bear on problems involving quantitative relationships. One is the ability to *decontextualize*, to abstract a given situation and represent it symbolically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

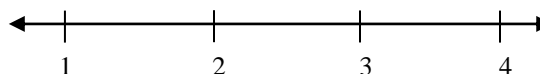
These students understand and use stated assumptions, definitions, and previously established results in constructing arguments. They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases,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

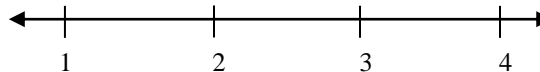
These students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, students might apply proportional reasoning to plan a school event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

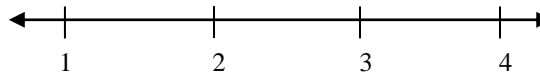
Mathematically proficient students consider available tools when solving a mathematical problem. These tools might include pencil and paper, concrete models, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software. Proficient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

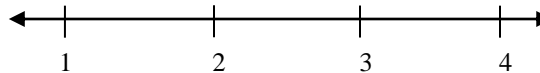
These students try to communicate precisely to others. They try to use clear definitions in discussion with others and in their own reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. Mathematically proficient students are careful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





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

## Documenting Alignment to the Standards for Mathematical Practice

Mathematically proficient students:

### 7. Look for and make use of structure.

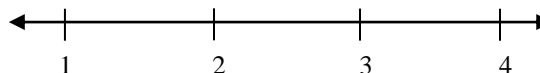
Mathematically proficient students look closely to discern a pattern or structure. Young students, for example, might notice that three and seven more is the same amount as seven and three more, or they may sort a collection of shapes according to how many sides the shapes have. Later, students will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



**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.**

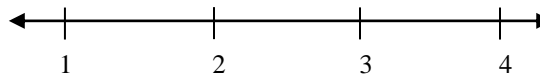
They notice if calculations are repeated, and look both for general methods and for shortcuts. Upper elementary students might notice when dividing 25 by 11 that they are repeating the same calculations over and over again and conclude they have a repeating decimal. By paying attention to the calculation 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 COLLEGE- AND CAREER-READY STANDARDS & OTHER CRITERIA – GRADE K

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

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

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

**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.

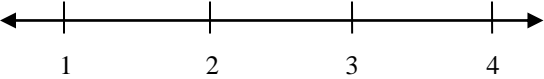
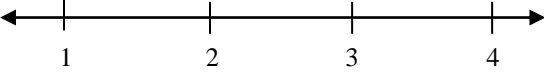
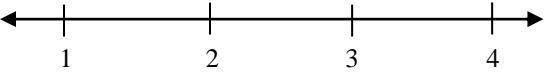
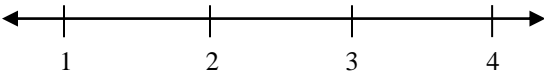
**Moderate:** This is the middle rating a book can receive. In general, a book that was rated as “moderate” scored mostly 2s and 3s on a 4-point scale.

**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**  
**COLLEGE- AND CAREER-READY STANDARDS – DISCRETE MATHEMATICS**

Students will:

**NUMBER AND QUANTITY**

	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<p>1. Analyze topics from elementary number theory, including perfect numbers and prime numbers, to determine properties of integers. </p>	<div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 45%;"> <p>Important Mathematical Ideas</p> <p>Skills and Procedures</p> <p>Mathematical Relationships</p> </div> <div style="width: 50%;">    </div> </div> <p style="margin-top: 20px;"><b>Summary/Justification/Evidence</b></p>
<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> 



**TEXTBOOK REVIEW FORM - MATHEMATICS**  
**COLLEGE- AND CAREER-READY STANDARDS – DISCRETE MATHEMATICS**

Students will:

**NUMBER AND QUANTITY**

	<b>Summary and documentation of how the domain, cluster, and standard are met.                      Cite examples from the materials.</b>
<p>3. Use the recursive process and difference equations to create fractals, population growth models, sequences, series, and compound interest models. </p>	<div style="margin-bottom: 10px;"> <p>Important Mathematical Ideas <span style="float: right;">←   1   2   3   4   →</span></p> </div> <div style="margin-bottom: 10px;"> <p>Skills and Procedures <span style="float: right;">←   1   2   3   4   →</span></p> </div> <div style="margin-bottom: 10px;"> <p>Mathematical Relationships <span style="float: right;">←   1   2   3   4   →</span></p> </div> <p><b>Summary/Justification/Evidence</b></p>
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</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> <span style="float: right;">←   1   2   3   4   →</span></p>

**TEXTBOOK REVIEW FORM - MATHEMATICS**  
**COLLEGE- AND CAREER-READY STANDARDS – DISCRETE MATHEMATICS**

Students will:


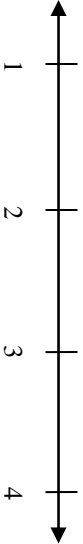
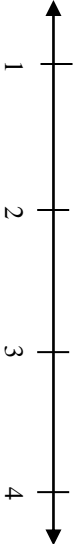
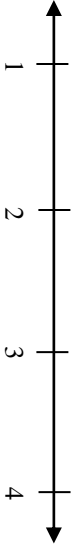
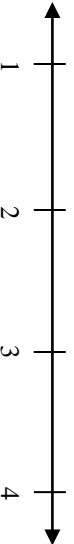
**NUMBER AND QUANTITY**

	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p>
<p>4. Convert between base ten and other bases. </p>	<p>Important Mathematical Ideas </p>
	<p>Skills and Procedures </p>
	<p>Mathematical Relationships </p>
<p><b>Summary/Justification/Evidence</b></p>	
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</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>	

**TEXTBOOK REVIEW FORM - MATHEMATICS**  
**COLLEGE- AND CAREER-READY STANDARDS – DISCRETE MATHEMATICS**

Students will:

**ALGEBRA**


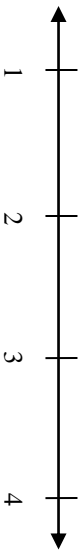
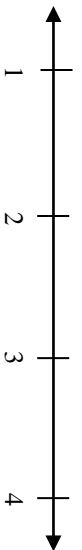

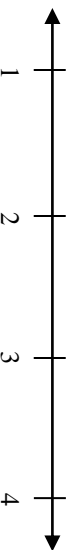
	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p>
<p>5. Determine results of operations upon <math>3 \times 3</math> and larger matrices, including matrix addition and multiplication of a matrix by a matrix, vector, or scalar. </p>	<p><b>Important Mathematical Ideas</b></p>  <p><b>Skills and Procedures</b></p>  <p><b>Mathematical Relationships</b></p>  <p><b>Summary/Justification/Evidence</b></p>
<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> 



**TEXTBOOK REVIEW FORM - MATHEMATICS**  
**COLLEGE- AND CAREER-READY STANDARDS – DISCRETE MATHEMATICS**

Students will:

**ALGEBRA**

	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p>
<p>6. Analyze determinants and inverses of <math>2 \times 2</math>, <math>3 \times 3</math>, and larger matrices to determine the nature of the solution set of the corresponding system of equations, including solving systems of equations in three variables by echelon row reduction and matrix inverse. </p>	<p><b>Important Mathematical Ideas</b></p>  <p><b>Skills and Procedures</b></p>  <p><b>Mathematical Relationships</b></p>  <p><b>Summary/Justification/Evidence</b></p>
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</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> 

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**COLLEGE- AND CAREER-READY STANDARDS – DISCRETE MATHEMATICS**

Students will:

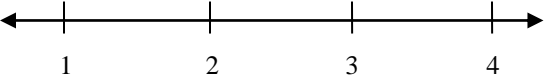
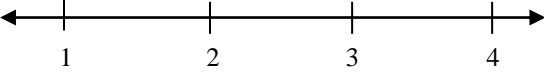
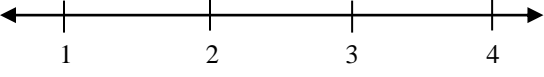
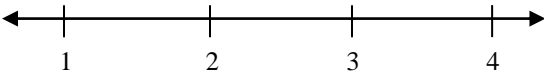
**ALGEBRA**

	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<p>7. Solve problems through investigation and application of existence and nonexistence of Euler paths, Euler circuits, Hamilton paths, and Hamilton circuits.  Example: Show why a <math>5 \times 5</math> grid has no Hamilton circuit.</p>	<div style="margin-bottom: 10px;"> <p>Important Mathematical Ideas <span style="float: right;">←   1   2   3   4   →</span></p> </div> <div style="margin-bottom: 10px;"> <p>Skills and Procedures <span style="float: right;">←   1   2   3   4   →</span></p> </div> <div style="margin-bottom: 10px;"> <p>Mathematical Relationships <span style="float: right;">←   1   2   3   4   →</span></p> </div> <p><b>Summary/Justification/Evidence</b></p>
<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> <span style="float: right;">←   1   2   3   4   →</span></p>

**TEXTBOOK REVIEW FORM - MATHEMATICS**  
**COLLEGE- AND CAREER-READY STANDARDS – DISCRETE MATHEMATICS**

Students will:

**ALGEBRA**


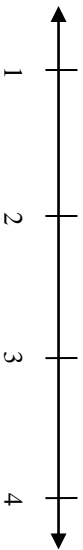
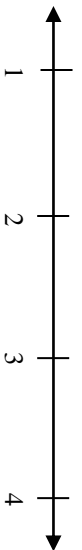
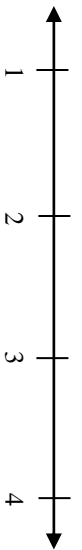
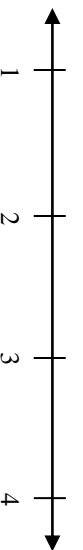
	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<p>a. Develop optimal solutions of application-based problems using existing and student-created algorithms .</p>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p><b>Summary/Justification/Evidence</b></p>
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</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>



**TEXTBOOK REVIEW FORM - MATHEMATICS**  
**COLLEGE- AND CAREER-READY STANDARDS – DISCRETE MATHEMATICS**

Students will:

**ALGEBRA**

<p>a. Use shortest path techniques to find optimal shipping routes. </p>	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p>
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </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>

**TEXTBOOK REVIEW FORM - MATHEMATICS**  
**COLLEGE- AND CAREER-READY STANDARDS – DISCRETE MATHEMATICS**

Students will:

**ALGEBRA**

<p>9. Determine a minimum project time using algorithms to schedule tasks in order, including critical path analysis, the list-processing algorithm, and student-created algorithms. </p> <p style="text-align: center;"><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p> <p>Important Mathematical Ideas</p> <p style="text-align: center;"> </p> <p>Skills and Procedures</p> <p style="text-align: center;"> </p> <p>Mathematical Relationships</p> <p style="text-align: center;"> </p> <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 style="text-align: center;"> </p>	

**TEXTBOOK REVIEW FORM - MATHEMATICS**  
**COLLEGE- AND CAREER-READY STANDARDS – DISCRETE MATHEMATICS**

Students will:


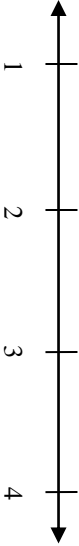
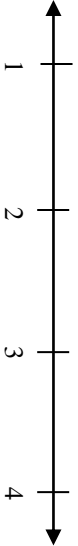
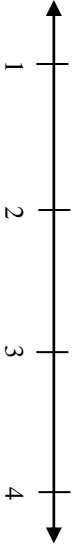
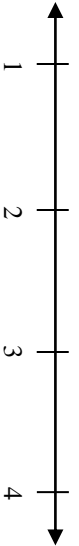
**GEOMETRY**

	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<p>10. Use vertex-coloring techniques and matching techniques to solve application-based problems. </p> <p>Example: Use graph-coloring techniques to color a map of the western states of the United States so no adjacent states are the same color, including determining the minimum number of colors needed and why no fewer colors may be used.</p>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p><b>Summary/Justification/Evidence</b></p>
<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>

**TEXTBOOK REVIEW FORM - MATHEMATICS**  
**COLLEGE- AND CAREER-READY STANDARDS – DISCRETE MATHEMATICS**

Students will:

**GEOMETRY**

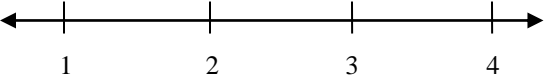
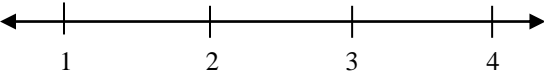
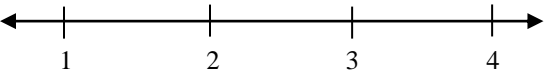
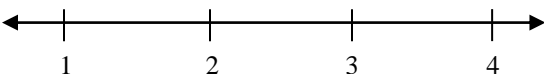
	<p><b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b></p>
<p>11. Solve application-based logic problems using Venn diagrams, truth tables, and matrices. </p>	<p><b>Important Mathematical Ideas</b></p>  <p><b>Skills and Procedures</b></p>  <p><b>Mathematical Relationships</b></p>  <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> 



**TEXTBOOK REVIEW FORM - MATHEMATICS**  
**COLLEGE- AND CAREER-READY STANDARDS – DISCRETE MATHEMATICS**

Students will:

**STATISTICS AND PROBABILITY**

	<b>Summary and documentation of how the domain, cluster, and standard are met.                      Cite examples from the materials.</b>
<p>12. Use combinatorial reasoning and counting techniques to solve application-based problems. <b>12</b></p> <p>Example: Determine the probability of a safe opening on the first attempt given the combination uses the digits 2, 4, 6, and 8 with the order unknown.</p> <p>Answer: The probability of the safe opening on the first attempt is <math>\frac{1}{24}</math>.</p>	<div style="margin-bottom: 10px;"> <p>Important Mathematical Ideas </p> </div> <div style="margin-bottom: 10px;"> <p>Skills and Procedures </p> </div> <div style="margin-bottom: 10px;"> <p>Mathematical Relationships </p> </div> <p><b>Summary/Justification/Evidence</b></p>
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</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>

**TEXTBOOK REVIEW FORM - MATHEMATICS**  
**COLLEGE- AND CAREER-READY STANDARDS – DISCRETE MATHEMATICS**

Students will:

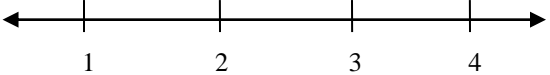
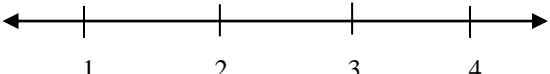
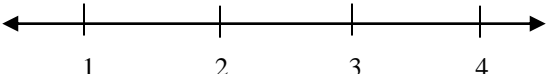
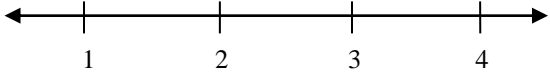
**STATISTICS AND PROBABILITY**

	<b>Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.</b>
<p>13. Analyze election data to compare election methods and voting apportionment, including determining strength within specific groups. </p>	<p>Important Mathematical Ideas </p> <p>Skills and Procedures </p> <p>Mathematical Relationships </p> <p><b>Summary/Justification/Evidence</b></p>
<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>

**TEXTBOOK REVIEW FORM – MATHEMATICS – ADDITIONAL CRITERIA AND INDICATORS – GRADES K-12**

**Documenting Alignment to  
Additional Criteria and Indicators**

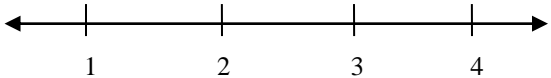
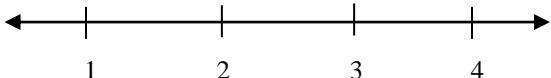
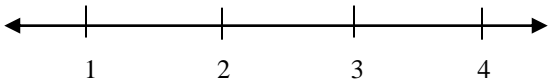
Content

<b>Criteria and Indicators</b>	<b>Summary and documentation of how the additional criteria and indicators are met. Cite examples from the materials.</b>
<ol style="list-style-type: none"> <li>1. Content is designed for students of varied abilities and understanding.</li> <li>2. Content is free of bias and/or controversial information.</li> <li>3. Content includes strategies for vocabulary instruction and graphic organizers.</li> <li>4. Content includes assignments that encourage integration of other content areas to support a math concept/skill.</li> </ol>	<p><b>Overall Rating</b>      </p> <p><b>Overall Rating</b>      </p> <p><b>Overall Rating</b>      </p> <p><b>Overall Rating</b>      </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 – GRADES K-12

### Documenting Alignment to Additional Criteria and Indicators

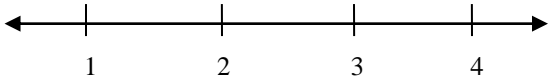
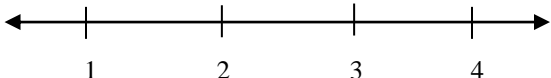
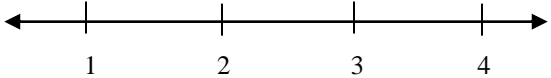

#### Technology

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

## TEXTBOOK REVIEW FORM – MATHEMATICS – ADDITIONAL CRITERIA AND INDICATORS – GRADES K-12

### Documenting Alignment to Additional Criteria and Indicators

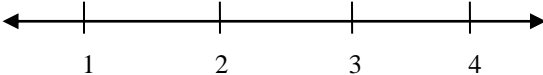
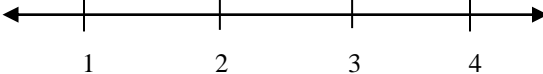
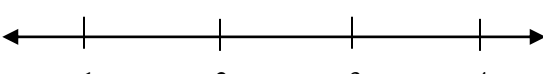
#### Assessment

Criteria and Indicators	Summary and documentation of how the additional criteria and indicators are met. Cite examples from the materials.
<ol style="list-style-type: none"> <li>1. Some assessments are designed to measure student understanding above the knowledge level.</li>   <li>2. Guidance is provided to teacher regarding how assessment information can be used to inform instruction.</li>   <li>3. Rubrics are provided for grading some assignments.</li>   <li>4. Some opportunities are provided for students to check their own understanding.</li> </ol>	<p><b>Overall Rating</b>      </p> <p><b>Overall Rating</b>      </p> <p><b>Overall Rating</b>      </p> <p><b>Overall Rating</b>      </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 – GRADES K-12**

**Documenting Alignment to  
Additional Criteria and Indicators**

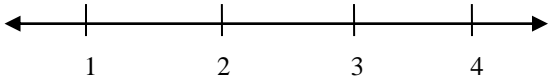
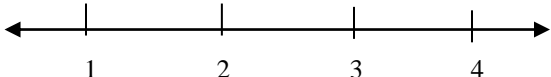
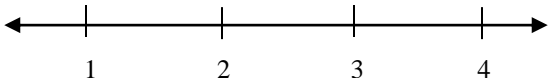
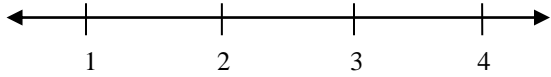
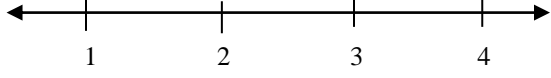
Assessment (Continued)

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>6. Multiple means of assessments are used, informal as well as formal.</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><b>Overall Rating</b>      </p> <p><b>Overall Rating</b>      </p> <p><b>Overall Rating</b>      </p>
<p>Indicate the chapter(s), sections, and/or page(s) reviewed.</p>	<p>Summary/Justification/Evidence:</p>

## TEXTBOOK REVIEW FORM – MATHEMATICS – ADDITIONAL CRITERIA AND INDICATORS – GRADES K-12

### 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"> <li>1. Teacher guide provides suggestions for how to demonstrate/model skills or use of knowledge.</li> <li>2. Teacher guide offers alternative instructional strategies for advanced learners, struggling learners, ELL and Sp. Ed.</li> <li>3. Teacher guide suggests multiple opportunities for students to demonstrate understanding.</li> <li>4. Teacher guide provides opportunities for guided practice and scaffolded support.</li> <li>5. Teacher guide includes suggestions to diagnose student errors, explanations of how these errors may be corrected, and how to further develop student ideas.</li> </ol>	<p><b>Overall Rating</b>      </p> <p><b>Overall Rating</b>      </p> <p><b>Overall Rating</b>      </p> <p><b>Overall Rating</b>      </p> <p><b>Overall Rating</b>      </p>
<p><b>Indicate the chapter(s), sections, and/or page(s) reviewed.</b></p>	<p><b>Summary/Justification/Evidence:</b></p>