

Prentice Hall: Connected Mathematics, Grade 6 Units ©2002

Correlated to:

**Ohio Mathematics Academic Content Standards
(Grade 6)**

OHIO GRADE LEVEL INDICATORS	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
NUMBER, NUMBER SENSE AND OPERATIONS STANDARD	
Students demonstrate number sense including an understanding of number systems and operations, and how they relate to one another. Students compute fluently and make reasonable estimates using paper and pencil, technology-supported and mental methods.	
<p>1. Decompose and recompose whole numbers using factors and exponents, and explain why “squared” means “second power” and “cubed” means “third power.”</p>	<p>SE/TE: <i>Bits and Pieces I:</i> 4, 5-18 <i>Prime Time:</i> 4, 6, 7, 12-14, 17, 18, 20-21, 22-24, 26-29, 30-33, 36-39, 40-44, 46-51, 61-63, 116</p> <p>TE: <i>Bits and Pieces I:</i> 1b, 4b, 18a-j <i>Prime Time:</i> 1a, 5b, 16a-d, 16f, 25a-e, 25, 35a-d, 35h, 45a-c, 57a-f</p> <p>TECH: www.phschool.com</p>

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OHIO GRADE LEVEL INDICATORS	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
2. Find and use the prime factorization of composite numbers to recognize the greatest common factor (GCF), the least common multiple (LCM), and to solve problems and explain solutions.	SE/TE: <i>Bits and Pieces I:</i> 4, 5-18 <i>Prime Time:</i> 4, 10, 11, 12-14, 48-49, 50-51, 61-63 <i>Ruins of Montarek:</i> 7-18, 22-23 TE: <i>Bits and Pieces I:</i> 1b, 4b, 18a-j <i>Prime Time:</i> 5b, 16a-d, 45d, 57b-f <i>Ruins of Montarek:</i> 6b, 25a-h TECH: www.phschool.com
3. Explain why a number is referred to as being “rational,” and recognize that the expression a/b can mean a parts of size $1/b$ each, a divided by b , or the ratio of a to b .	TE: <i>Bits and Pieces II:</i> 42c TECH: www.phschool.com
4. Describe what it means to find a specific percent of a number, using real-life examples.	SE/TE: <i>Bits and Pieces I:</i> 4, 67-76, 77-82 <i>Bits and Pieces II:</i> 4, 5-11, 12-16, 18-23, 24-29, 61 TE: <i>Bits and Pieces I:</i> 1c, 66l, 83b-g <i>Bits and Pieces II:</i> 4b, 17a-e, 17h, 30a-b, 30c, 30d TECH: www.phschool.com

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5. Use models and pictures to relate concepts of ratio, proportion and percent, including percents less than 1 and greater than 100.	SE/TE: <i>Bits and Pieces I:</i> 4, 67-76, 77-82 <i>Bits and Pieces II:</i> 4, 5-11, 12-16, 18-23, 24-29, 61 TE: <i>Bits and Pieces I:</i> 1c, 66l, 83b-g <i>Bits and Pieces II:</i> 4b, 17a-e, 17h, 30a-b, 30c, 30d TECH: www.phschool.com
6. Use the order operations, including the use of exponents, decimals and rational numbers, to simplify numerical expressions.	SE/TE: <i>Bits and Pieces I:</i> 4, 22-24, 26-29, 37, 39-45, 46-51, 53-57, 58-65, 67-76, 77-82 <i>Bits and Pieces II:</i> 4, 5-11, 12-16, 18-23, 24-29, 61 <i>Prime Time:</i> 49 TE: <i>Bits and Pieces I:</i> 1c, 1d, 30c-e, 38h, 38h, 52a-h, 52l, 66a-g, 66l, 83b-g <i>Bits and Pieces II:</i> 4b, 17a-e, 17h, 30a-b, 30c, 30d TECH: www.phschool.com

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<p>7. Use simple expressions involving integers to represent and solve problems.</p>	<p>TE: <i>Bits and Pieces I:</i> 1e, 4b, 18l, 30l, 38h, 52l, 66l <i>Bits and Pieces II:</i> 4b, 17h, 30h, 42d, 53j, 63j <i>Covering and Surrounding:</i> 1d, 5b, 18l, 28d, 34h, 45h, 55h, 68h <i>Shapes and Designs:</i> 1d, 7b, 14f, 21h, 41l, 50j, 63h <i>Prime Time:</i> 1c, 5b, 16f, 25f, 35h, 45d, 57h <i>Ruins of Montarek:</i> 1e, 6b, 25n, 39h, 51h, 61l, 71f <i>Data About Us:</i> 1c, 5b, 21l, 29f, 41j, 52h <i>How Likely Is It?:</i> 1d, 4b, 13f, 21d, 28d, 41f, 48f, 56d TECH: www.phschool.com</p>
<p>8. Represent multiplication and division situations involving fractions and decimals with models and visual representations.</p>	<p>SE/TE: <i>Bits and Pieces I:</i> 4, 5-13, 20-23, 67, 73-76 <i>Bits and Pieces II:</i> 4, 5-11, 12-16, 29, 31-34, 35-41, 47, 54-59, 60-62, 64-71, 72-75 TE: <i>Bits and Pieces I:</i> 1b, 1c, 18a-f, 18l, 30a-e, 66l, 83b-g <i>Bits and Pieces II:</i> 4b, 17a-e, 30a-b, 30h, 42a-c, 63a-g, 63j, 76a-f TECH: www.phschool.com</p>

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9. Give examples of how ratios are used to represent comparisons.	SE/TE: <i>Bits and Pieces I:</i> 4, 67-76, 77-82 <i>Bits and Pieces II:</i> 4, 5-11, 12-16, 18-23, 24-29, 61 TE: <i>Bits and Pieces I:</i> 1c, 66l, 83b-g <i>Bits and Pieces II:</i> 4b, 17a-e, 17h, 30a-b, 30c, 30d TECH: www.phschool.com
10. Recognize that a quotient may be larger than the dividend when the divisor is a fraction.	SE/TE: <i>Bits and Pieces I:</i> 4, 5-13, 14-17, 20-23, 67, 73-76 <i>Bits and Pieces II:</i> 4, 5-11, 14-26, 27-29, 31-34, 35-41, 47, 49-52, 54-59, 60-62, 64-71, 72-75 TE: <i>Bits and Pieces I:</i> 1b, 1c, 18a-f, 18l, 30a-e, 66l, 83b-g <i>Bits and Pieces II:</i> 4b, 17a-e, 30a-b, 30h, 42a-c, 63a-g, 63j, 76a-f TECH: www.phschool.com
11. Perform fraction and decimal computations and justify their solutions.	SE/TE: <i>Bits and Pieces I:</i> 4, 5-13, 20-23, 67-76, 73-76, 77-82 <i>Bits and Pieces II:</i> 4, 5-11, 12-16, 18-23, 24-29, 31-34, 35-41, 47, 54-59, 60-62, 64-71, 72-75 TE: <i>Bits and Pieces I:</i> 1b, 1c, 18a-f, 18l, 30a-e, 66l, 83b-g <i>Bits and Pieces II:</i> 4b, 17a-e, 17h, 30a-b, 30c, 30d, 30h, 42a-c, 63a-g, 63j, 76a-f TECH: www.phschool.com

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12. Develop and analyze algorithms for computing with fractions and decimals, and demonstrate fluency in their use.	SE/TE: <i>Bits and Pieces II:</i> 48, 59 TE: <i>Bits and Pieces II:</i> 42d, 53f-g, 53j, 63f-g TECH: www.phschool.com
13. Estimate reasonable solutions to problem situations involving fractions and decimals.	SE/TE: <i>Bits and Pieces I:</i> 5-16, 43-44, 54-56, 76, 79-80 <i>Covering and Surrounding:</i> 16, 17, 19-27 <i>Data About Us:</i> 28 <i>Bits and Pieces II:</i> 4, 31-34, 35-41, 64-66, 72-73 TE: <i>Bits and Pieces I:</i> 4b, 18a-f, 52e-g, 66c-e, 83g <i>Covering and Surrounding:</i> 1c, 18l, 28a-b <i>Bits and Pieces II:</i> 30h, 42a-e, 76a-b TECH: www.phschool.com

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<p>14. Use proportional reasoning, ratios and percents to represent problem situations and determine the reasonableness of solutions.</p>	<p>TE: <i>Bits and Pieces I:</i> 1e, 4b, 18l, 30l, 38h, 52l, 66l <i>Bits and Pieces II:</i> 4b, 17h, 30h, 42d, 53j, 63j <i>Covering and Surrounding:</i> 1d, 5b, 18l, 28d, 34h, 45h, 55h, 68h <i>Shapes and Designs:</i> 1d, 7b, 14f, 21h, 41l, 50j, 63h <i>Prime Time:</i> 1c, 5b, 16f, 25f, 35h, 45d, 57h <i>Ruins of Montarek:</i> 1e, 6b, 25n, 39h, 51h, 61l, 71f <i>Data About Us:</i> 1c, 5b, 21l, 29f, 41j, 52h <i>How Likely Is It?:</i> 1d, 4b, 13f, 21d, 28d, 41f, 48f, 56d</p> <p>TECH: www.phschool.com</p>

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15. Determine the percent of a number and solve related problems.	SE/TE: <i>Bits and Pieces I:</i> 4, 67-76, 77-82 <i>Bits and Pieces II:</i> 4, 5-11, 12-16, 18-23, 24-29, 61 TE: <i>Bits and Pieces I:</i> 1e, 1c, 4b, 18l, 30l, 38h, 52l, 66l, 83b-g <i>Bits and Pieces II:</i> 4b, 17a-e, 17h, 30a-b, 30c, 30d, 30h, 42d, 53j, 63j <i>Covering and Surrounding:</i> 1d, 5b, 18l, 28d, 34h, 45h, 55h, 68h <i>Shapes and Designs:</i> 1d, 7b, 14f, 21h, 41l, 50j, 63h <i>Prime Time:</i> 1c, 5b, 16f, 25f, 35h, 45d, 57h <i>Ruins of Montarek:</i> 1e, 6b, 25n, 39h, 51h, 61l, 71f <i>Data About Us:</i> 1c, 5b, 21l, 29f, 41j, 52h <i>How Likely Is It?:</i> 1d, 4b, 13f, 21d, 28d, 41f, 48f, 56d TECH: www.phschool.com

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MEASUREMENT STANDARD	
Students estimate and measure to a required degree of accuracy and precision by selecting and using appropriate units, tools and technologies.	
1. Understand and describe the difference between surface area and volume.	SE/TE: <i>Ruins of Montarek:</i> 70 <i>Bits and Pieces I:</i> 31-32, 34-37 <i>Bits and Pieces II:</i> 54-59 TE: <i>Bits and Pieces I:</i> 1d, 30l, 38a-b <i>Bits and Pieces II:</i> 53j, 63a-g TECH: www.phschool.com
2. Use strategies to develop formulas for finding circumference and area of circles, and to determine the area of sectors.	SE/TE: <i>Bits and Pieces I:</i> 31-32, 34-37 <i>Covering and Surrounding:</i> 4, 23-24, 69-75, 76-80 TE: <i>Bits and Pieces I:</i> 1d, 30l, 38a-b <i>Covering and Surrounding:</i> 68h, 81a-h TECH: www.phschool.com

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<p>3. Estimate perimeter or circumference and area for circles, triangles, and quadrilaterals, and surface area and volume for prisms and cylinders by:</p> <p>a. Estimating lengths using string or links, areas using tiles or grid, and volumes using cubes.</p>	<p>SE/TE: <i>Covering and Surrounding:</i> 16, 17, 19-27 <i>Shapes and Designs:</i> 9-10, 25-27, 46, 127 <i>Data About Us:</i> 28 <i>Bits and Pieces II:</i> 4, 31-34, 35-41, 64-66, 72-73</p> <p>TE: <i>Covering and Surrounding:</i> 1c, 18l, 28a-b <i>Shapes and Designs:</i> 1b, 1c, 14a-d, 41a-e, 50f-g <i>Bits and Pieces II:</i> 30h, 42a-e, 76a-b</p> <p>TECH: www.phschool.com</p>
<p>b. Measuring attributes (diameter, side lengths, or heights) and using established formulas for circles, triangles, rectangles, parallelograms and rectangular prisms.</p>	<p>SE/TE: <i>Covering and Surrounding:</i> 4, 16, 17, 19-27, 30-31, 40, 46-50, 51-55, 58, 59, 60-67, 69-75, 76-80, 146 <i>Shapes and Designs:</i> 4-6, 8-10, 13, 18, 19-20, 25-27, 42-46, 47-49, 51, 56-57, 128</p> <p>TE: <i>Covering and Surrounding:</i> 18l, 28a-b, 34a-e, 45h, 55a-f, 68a-f, 68h, 81a-h <i>Shapes and Designs:</i> 1b, 7b, 14a-d, 21e-g, 21h, 41a-e, 41l, 50a-g,</p> <p>TECH: www.phschool.com</p>

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<p>4. Determine which measure (perimeter, area, surface area, volume) matches the context for a problem situation.</p>	<p>SE/TE: <i>Ruins of Montarek:</i> 70 <i>Bits and Pieces I:</i> 31-32, 34-37 <i>Bits and Pieces II:</i> 54-59 <i>Covering and Surrounding:</i> 4, 6-12, 13-17, 19-20, 21-27, 29-31, 32-33, 35-37, 38-44, 49, 51-52, 56-57, 60-67, 69, 147</p> <p>TE: <i>Bits and Pieces I:</i> 1d, 30l, 38a-b <i>Bits and Pieces II:</i> 53j, 63a-g <i>Covering and Surrounding:</i> 1b, 5b. 18a-g, 18l, 28a-b, 28d, 34a-h, 45a-h, 55a-f, 55h, 68a-c, 68h, 81d</p> <p>TECH: www.phschool.com</p>

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<p>5. Understand the difference between perimeter and area, and demonstrate that two shapes may have the same perimeter, but different areas or may have the same area, but different perimeters.</p>	<p>SE/TE: <i>Ruins of Montarek:</i> 70 <i>Bits and Pieces I:</i> 31-32, 34-37 <i>Bits and Pieces II:</i> 54-59 <i>Covering and Surrounding:</i> 4, 6-12, 13-17, 19-20, 21-27, 29-31, 32-33, 35-37, 38-44, 49, 51-52, 56-57, 60-67, 69-75, 76-80 147</p> <p>TE: <i>Bits and Pieces I:</i> 1d, 30l, 38a-b <i>Bits and Pieces II:</i> 53j, 63a-g <i>Covering and Surrounding:</i> 1b, 5b. 18a-g, 18l, 28a-b, 28d, 34a-h, 45a-h, 55a-f, 55h, 68a-c, 68h, 81a-h</p> <p>TECH: www.phschool.com</p>

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6. Describe what happens to the perimeter and area of a two-dimensional shape when the measurements of the shape are changed.	SE/TE: <i>Ruins of Montarek:</i> 70 <i>Bits and Pieces I:</i> 31-32, 34-37 <i>Bits and Pieces II:</i> 54-59 <i>Covering and Surrounding:</i> 4, 6-12, 13-17, 19-20, 21-27, 29-31, 32-33, 35-37, 38-44, 49, 51-52, 56-57, 60-67, 69-75, 76-80 147 TE: <i>Bits and Pieces I:</i> 1d, 30l, 38a-b <i>Bits and Pieces II:</i> 53j, 63a-g <i>Covering and Surrounding:</i> 1b, 5b. 18a-g, 18l, 28a-b, 28d, 34a-h, 45a-h, 55a-f, 55h, 68a-c, 68h, 81a-h TECH: www.phschool.com
GEOMETRY AND SPATIAL SENSE STANDARD	
Students identify, classify, compare and analyze characteristics, properties and relationships of one-, two-, and three-dimensional geometric figures and objects. Students use spatial reasoning, properties of geometric objects and transformations to analyze mathematical situations and solve problems.	
1. Classify and describe two-dimensional and three-dimensional geometric figures and objects by using their properties.	SE/TE: <i>Shapes and Designs:</i> 4-6, 8-10, 11, 13, 15-18, 22-41, 42-49, 50, 52-53, 57-62 TE: <i>Shapes and Designs:</i> 1e, 7b, 14a-f, 21a-g, 21h, 41a-k, 41l, 50a-j, 63a-c TECH: www.phschool.com

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2. Use standard language to define geometric vocabulary: vertex, face, altitude, diagonal, isosceles, equilateral, acute, obtuse and other vocabulary as appropriate.	SE/TE: Shapes and Designs: 10, 24, 25, 45, 46, 48, 52-53, 129 Ruins of Montarek: 7-18, 19-24, 26-32, 33-38, 40-44, 45-50, 52-57, 77-80 TE: Shapes and Designs: 41a-c, 41l, 50a-g, 50l, 50j, 63a-c, 63f Ruins of Montarek: 1a-c, 6b, 25ah, 39a-d, 39h, 51a-d, 51h, 61a-I TECH: www.phschool.com
3. Use multiple classification criteria to classify triangles.	SE/TE: Covering and Surrounding: 4, 17, 56-59, 60-67 Shapes and Designs: 6, 16, 19-20, 42-44, 45, 47-49, 52-53, 59, 67 Ruins of Montarek: 2-5, 7-18, 52-57 TE: Covering and Surrounding: 55h, 68a-f, 81d Shapes and Designs: 1b, 14f, 21a-c, 41l, 50a-j, 63a-c Ruins of Montarek: 6b, 51h, 61a-I TECH: www.phschool.com

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4. Identify and define relationships between planes; i.e., parallel, perpendicular and intersecting.	SE/TE: <i>Covering and Surrounding:</i> 4, 17, 40, 46-50, 51-55 <i>Shapes and Designs:</i> 11, 18, 19-20, 40, 54, 56, 57-62, 68 TE: <i>Covering and Surrounding:</i> 45h, 55a-f, 81d <i>Shapes and Designs:</i> 14f, 21e-g, 75g TECH: www.phschool.com
5. Predict and describe sizes, positions and orientations of two-dimensional shapes after transformations such as reflections, rotations, translations and dilations.	SE/TE: <i>Shapes and Designs:</i> 6, 54-56, 66, 67 <i>Ruins of Montarek:</i> 19-24, 33-38, 45-50, 52-57, 77-80 <i>Covering and Surrounding:</i> 4-6, 8-10, 11-13, 19-20, 35-40, 47-49, 57-62, 69-74 TE: <i>Shapes and Designs:</i> 1b, 41l, 50b, 50j, 63a-c <i>Ruins of Montarek:</i> 1a-c, 25n, 51h <i>Covering and Surrounding:</i> 7b, 14a-d TECH: www.phschool.com

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<p>6. Draw similar figures that model proportional relationships.</p>	<p>SE/TE: <i>Bits and Pieces I:</i> 31-32, 34-37 <i>Shapes and Designs:</i> 6, 52-53 <i>Ruins of Montarek:</i> 10-12, 23-24, 26-32, 40-44</p> <p>TE: <i>Bits and Pieces I:</i> 1d, 30l, 38a-c <i>Shapes and Designs:</i> 50j, 63a-c <i>Ruins of Montarek:</i> 6b, 25b-d, 25n, 39a-h, 51a-d</p> <p>TECH: www.phschool.com</p>
<p>7. Build three-dimensional objects with cubes, and sketch the two-dimensional representations of each side; i.e., projection sets.</p>	<p>SE/TE: <i>Ruins of Montarek:</i> 2-5, 7-18, 26-32, 40-44, 52-57, 62-64, 77-80</p> <p>TE: <i>Ruins of Montarek:</i> 1ac, 6b, 25a-h, 39a-d, 51a-d, 51h, 61a-I, 61l, 71a-e</p> <p>TECH: www.phschool.com</p>

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PATTERNS, FUNCTIONS AND ALGEBRA STANDARD	
Students use patterns, relations and functions to model, represent and analyze problem situations that involve variable quantities. Students analyze, model and solve problems using various representations such as table, graphs and equations.	
1. Represent and analyze patterns, rules and functions, using physical materials, tables and graphs.	SE/TE: <i>Ruins of Montarek:</i> 63 <i>Bits and Pieces II:</i> 47, 61, 69-70, 73-75 <i>Data About Us:</i> 4, 7-8, 15-20, 24, 27-28, 32-36, 42-52, 56-59, 60-61 TE: <i>Ruins of Montarek:</i> 71a-b <i>Bits and Pieces II:</i> 76d-e <i>Data About Us:</i> 21c-g, 41a-f, 41j, 52a-g TECH: www.phschool.com

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2. Use words and symbols to describe numerical and geometric patterns, rules and functions.	SE/TE: <i>Ruins of Montarek:</i> 63 <i>Bits and Pieces I:</i> 22-24, 26-29, 37, 44, 47-48, 51, 54-56 <i>Bits and Pieces II:</i> 47, 61, 69-70, 73-75 <i>Data About Us:</i> 4, 7-8, 15-20, 24, 27-28, 32-36, 42-52, 56-59, 60-61 TE: <i>Ruins of Montarek:</i> 71a-b <i>Bits and Pieces I:</i> 30c-e, 52e-g, 66c-g <i>Bits and Pieces II:</i> 76d-e <i>Data About Us:</i> 21c-g, 41a-f, 41j, 52a-g TECH: www.phschool.com
3. Recognize and generate equivalent forms of algebraic expressions, and explain how the commutative, associative and distributive properties can be used to generate equivalent forms.	SE/TE: <i>Bits and Pieces I:</i> 4, 20-23, 26-29, 34-37 <i>Bits and Pieces II:</i> 14-15, 43-45 TE: <i>Bits and Pieces I:</i> 18l, 30a-e <i>Bits and Pieces II:</i> 42d, 53a-d TECH: www.phschool.com

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<p>4. Solve simple linear equations and inequalities using physical models, paper and pencil, tables and graphs.</p>	<p>SE/TE: <i>Ruins of Montarek:</i> 52-57, 63, 149, 150, 151 <i>Bits and Pieces I:</i> 172 <i>Bits and Pieces II:</i> 47, 61, 69-70, 73-75 <i>Data About Us:</i> 4, 7-8, 15-20, 24, 27-28, 32-36, 42-52, 56-59, 60-61 <i>Shapes and Designs:</i> 172 <i>Prime Time:</i> 118</p> <p>TE: <i>Ruins of Montarek:</i> 51h, 61a-I, 61l, 71a-b <i>Bits and Pieces II:</i> 76d-e <i>Data About Us:</i> 21c-g, 41a-f, 41j, 52a-g <i>Shapes and Designs:</i> 1f</p> <p>TECH: www.phschool.com</p>

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5. Produce and interpret graphs that represent the relationship between two variables.	<p>SE/TE: <i>Ruins of Montarek:</i> 63 <i>Bits and Pieces II:</i> 47, 61, 69-70, 73-75 <i>Data About Us:</i> 4, 7-8, 15-20, 24, 27-28, 32-36, 42-52, 56-59, 60-61</p> <p>TE: <i>Ruins of Montarek:</i> 71a-b <i>Bits and Pieces II:</i> 76d-e <i>Data About Us:</i> 21c-g, 41a-f, 41j, 52a-g</p> <p>TECH: www.phschool.com</p>
6. Evaluate simple expressions by replacing variables with given values, and use formulas in problem-solving situations.	<p>TE: <i>Bits and Pieces I:</i> 1e, 4b, 18l, 30l, 38h, 52l, 66l <i>Covering and Surrounding:</i> 5b, 18l, 28d, 34h, 45h, 55h, 68h <i>Shapes and Designs:</i> 1d, 7b, 14f, 21h, 41l, 50j, 63h <i>Prime Time:</i> 1c, 5b, 16f, 25f, 35h, 45d, 57h <i>Ruins of Montarek:</i> 1e, 6b, 25n, 39h, 51h, 61l, 71f <i>Data About Us:</i> 1c, 5b, 21l, 29f, 41j, 52h <i>How Likely Is It?:</i> 1d, 4b, 13f, 21d, 28d, 48f, 56d <i>Bits and Pieces II:</i> 1c, 4b, 17h, 30h, 42d, 53j, 63j</p> <p>TECH: www.phschool.com</p>

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7. Identify and describe situations with constant or varying rates of change, and compare them.	TE: <i>Bits and Pieces I:</i> 1e, 4b, 18l, 30l, 38h, 52l, 66l <i>Covering and Surrounding:</i> 5b, 18l, 28d, 34h, 45h, 55h, 68h <i>Shapes and Designs:</i> 1d, 7b, 14f, 21h, 41l, 50j, 63h <i>Prime Time:</i> 1c, 5b, 16f, 25f, 35h, 45d, 57h <i>Ruins of Montarek:</i> 1e, 6b, 25n, 39h, 51h, 61l, 71f <i>Data About Us:</i> 1c, 5b, 21l, 29f, 41j, 52h <i>How Likely Is It?:</i> 1d, 4b, 13f, 21d, 28d, 48f, 56d <i>Bits and Pieces II:</i> 1c, 4b, 17h, 30h, 42d, 53j, 63j TECH: www.phschool.com
8. Use technology to analyze change.	SE/TE: <i>Shapes and Designs:</i> 67-68 TE: <i>Shapes and Designs:</i> 63h, 75a-g <i>Prime Time:</i> 1e <i>Data About Us:</i> 1e <i>Bits and Pieces II:</i> 1g TECH: www.phschool.com

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DATA ANALYSIS AND PROBABILITY STANDARD	
Students pose questions and collect, organize, represent, interpret and analyze data to answer those questions. Students develop and evaluate inferences, predictions and arguments that are based on data.	
<p>1. Read, construct and interpret line graphs, circle graphs and histograms.</p>	<p>SE/TE: <i>Ruins of Montarek:</i> 63 <i>Bits and Pieces II:</i> 47, 61, 69-70, 73-75 <i>Data About Us:</i> 4, 7-8, 15-20, 24, 27-28, 32-36, 42-52, 56-59, 60-61</p> <p>TE: <i>Ruins of Montarek:</i> 71a-b <i>Bits and Pieces II:</i> 76d-e <i>Data About Us:</i> 21c-g, 41a-f, 41j, 52a-g</p> <p>TECH: www.phschool.com</p>

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<p>2. Select, create and use graphical representations that are appropriate for the type of data collected.</p>	<p>SE/TE: <i>Ruins of Montarek:</i> 63 <i>Bits and Pieces II:</i> 47, 61, 69-70, 73-75 <i>Data About Us:</i> 3, 4, 7-8, 15-20, 24, 27-28, 32-36, 42-52, 56-59, 60-61, 86-87</p> <p>TE: <i>Ruins of Montarek:</i> 71a-b <i>Bits and Pieces II:</i> 76d-e <i>Data About Us:</i> 1a, 1b, 21a, 21c-g, 29a-h, 41a-f, 41j, 52a-g</p> <p>TECH: www.phschool.com</p>
<p>3. Compare representations of the same data in different types of graphs, such as a bar graph and circle graph.</p>	<p>SE/TE: <i>Ruins of Montarek:</i> 63 <i>Bits and Pieces II:</i> 47, 61, 69-70, 73-75 <i>Data About Us:</i> 4, 7-8, 15-20, 24, 27-28, 32-36, 42-52, 56-59, 60-61</p> <p>TE: <i>Ruins of Montarek:</i> 71a-b <i>Bits and Pieces II:</i> 76d-e <i>Data About Us:</i> 21c-g, 41a-f, 41j, 52a-g</p> <p>TECH: www.phschool.com</p>

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4. Understand the different information provided by measures of center (mean, mode and median) and measures of spread range).	SE/TE: <i>Data About Us:</i> 4, 9-10, 12, 15-20, 30-36, 50, 53-61, 62-66 TE: <i>Data About Us:</i> 5b, 21a-e, 52h, 68a-n TECH: www.phschool.com
5. Describe the frequency of distribution of a set of data, as shown in a histogram or frequency table, by general appearance or shape.	SE/TE: <i>Data About Us:</i> 3, 4, 7-14, 15-20, 22-25, 30-36, 49, 50, 53-61, 62-66, 86-87, 120 TE: <i>Data About Us:</i> 1a, 1b, 5b, 21a-e, 21l, 29a-d, 29f, 41a-I, 52h, 68a-n TECH: www.phschool.com
6. Make logical inferences from statistical data.	SE/TE: <i>Data About Us:</i> 3, 4, 7-14, 15-20, 22-25, 30-36, 49, 50, 53-61, 62-66, 86-87, 120 TE: <i>Data About Us:</i> 1a, 1b, 5b, 21a-e, 21l, 29a-d, 29f, 41a-I, 52h, 68a-n TECH: www.phschool.com

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7. Design an experiment to test a theoretical probability and explain how the results may vary.	SE/TE: Data About Us: 3, 4, 7-14, 15-20, 22-25, 30-36, 49, 50, 53-61, 62-66, 86-87, 120 Shapes and Designs: 42-44, 51-56 Prime Time: 4, 17-21, 22-24, 75-83 How Likely Is It?: 5-8, 14-15, 16, 22-23, 29-34, 49-50, 57-60 TE: Data About Us: 1a, 1b, 5b, 21a-e, 21l, 29a-d, 29f, 41a-I, 52h, 68a-n Shapes and Designs: 50a-h, 63a-d Prime Time: 16f, 25a-e How Likely Is It?: 4b, 21a-d, 28a-b, 28c, 28d, 41a-d, 48f, 56d, 64a-c TECH: www.phschool.com

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