

Ohio Benchmarks for Grades 5-7 and Grade Level Indicators for Grade 6	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
Number, Number Sense and Operations	
A. Represent and compare numbers less than 0 through familiar applications and extending the number line.	SE/TE: 516-522
	TR: Section 11-1, 11-2: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
B. Compare, order and convert among fractions, decimals and percents.	SE/TE: 198-201, 330-334
	TR: Section 4-9, 7-6: Activity Lab 7-6a; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Student Manipulatives Kit; Graph Paper; Algebra Tiles
C. Develop meaning for percents, including percents greater than 100 and less than 1.	SE/TE: 330-334, 352
	TR: Section 7-6: Activity Lab 7-6a; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Student Manipulatives Kit; Graph Paper; Algebra Tiles
D. Use models and pictures to relate concepts of ratio, proportion and percent.	SE/TE: 306-308, 310, 312, 315, 323-324, 326-330, 333
	TR: Section 7-1, 7-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.

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E. Use order of operations, including use of parenthesis and exponents to solve multi-step problems, and verify and interpret the results.	SE/TE: 16-19, 163
	TR: Section 1-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
F. Apply number system properties when performing computations.	SE/TE: 12-15, 126, 131, 134, 138, 139, 144-147, 148, 201, 317, 321
	TR: Section 1-3: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Graph Paper
G. Apply and explain the use of prime factorizations, common factors, and common multiples in problem situations.	SE/TE: 166-169, 171-174, 188-191
	TR: Section 4-3, 4-4, 4-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
H. Use and analyze the steps in standard and non-standard algorithms for computing with fractions, decimals and integers.	SE/TE: 32-35, 37-42, 44-47, 216-225, 227, 228-233, 261-264, 266-270, 271-280, 523-527, 529-537, 540-542
	TR: Section 1-7,1-8, 5-2 through 5-5, 6-1through 6-4, 11-3 through 11-6: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.

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I. Use a variety of strategies, including proportional reasoning, to estimate, compute, solve and explain solutions to problems involving integers, fractions, decimals and percents.	SE/TE: 32-35, 37-42, 44-47, 216-225, 227, 228-233, 261-264, 266-270, 271-280, 523-527, 529-537, 540-542
	TR: Section 1-7,1-8, 5-2 through 5-5, 6-1through 6-4, 11-3 through 11-6: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Student Manipulatives Kit; base-ten pieces, Calculator; Graph Paper; Classroom Aid 11; Counters
Measurement	
A. Select appropriate units to measure angles, circumference, surface area, mass and volume, using:	
<ul style="list-style-type: none"> • U.S. customary units; e.g., degrees, square feet, pounds, and other units as appropriate; 	SE/TE: 288-291
	TR: Section 6-6: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
<ul style="list-style-type: none"> • metric units; e.g., square meters, kilograms and other units as appropriate. 	SE/TE: 416-420
	TR: Section 9-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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B. Convert units of length, area, volume, mass and time within the same measurement system.	SE/TE: 292-295, 420-424, T648
	TR: Section 6-7, 9-2: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
C. Identify appropriate tools and apply appropriate techniques for measuring angles, perimeter or circumference and area of triangles, quadrilaterals, circles and composite shapes, and surface area and volume of prisms and cylinders.	SE/TE: 367-371, 381, 420, 426-435, 437, 442-443, 444-447, 453-456, 457-460, 462-466, 467
	TR: Section 8-2, 9-3, 9-4, 9-6, 9-8, 9-9, 9-10: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Student Manipulatives Kit; Protractor; Centimeter Cubes
D. Select a tool and measure accurately to a specified level of precision.	SE/TE: 367, 369, 372-373, 420, 247, 644
E. Use problem solving techniques and technology as needed to solve problems involving length, weight, perimeter, area, volume, time and temperature.	SE/TE: 75, 163, 246-249, 288-291, 416-420, 426-435, 444-447, 457-460, 462-466, 522, 526, 533, 535, 545, 586, 591-595, 644, 646-647
	TR: Section 5-7, 6-6, 9-1, 9-3, 9-4, 9-6, 9-9, 9-10, 12-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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F. Analyze and explain what happens to area and perimeter or surface area and volume when the dimensions of an object are changed.	SE/TE: 427, 430, 455, 457, 459, 460, 464
G. Understand and demonstrate the independence of perimeter and area for two-dimensional shapes and of surface area and volume for three-dimensional shapes.	SE/TE: 426-430, 453-456, 458- 460, 462-465
	TR: Section 9-3, 9-8, 9-9, 9-10: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Student Manipulatives Kit; Graph Paper; Centimeter Cubes
Geometry and Spatial Sense	
A. Identify and label angle parts and the regions defined within the plane where the angle resides.	SE/TE: 366-371, 374-378
	TR: Section 8-2, 8-3: Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
B. Draw circles, and identify and determine the relationships among the radius, diameter, center and circumference.	SE/TE: 437-441
	TR: Section 9-5: Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook

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C. Specify locations and plot ordered pairs on a coordinate plane.	SE/TE: 547-551, 553
	TR: Section 11-8: Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Graphing Calculator; Graph Paper
D. Identify, describe and classify types of line pairs, angles, two-dimensional figures and three-dimensional objects using their properties.	SE/TE: 362-365, 367-371, 374-378, 380-383, 386-390, 449-452
	TR: Section 8-1 through 8-5, 9-7: Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
E. Use proportions to express relationships among corresponding parts of similar figures.	SE/TE: 392-397
	TR: Section 8-6: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
F. Describe and use the concepts of congruence, similarity and symmetry to solve problems.	SE/TE: 392-397, 398-401
	TR: Section 8-6, 8-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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G. Describe and use properties of triangles to solve problems involving angle measures and side lengths of right triangles.	SE/TE: 381-382, 591-596
	TR: Section 8-4, 12-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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H. Predict and describe results (size, position, orientation) of transformations of two-dimensional figures.	SE/TE: 402-406
	TR: Section 8-8: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
I. Identify and draw three-dimensional objects from different views (top, side, front and perspective).	SE/TE: 448-452
	TR: Section 9-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Student Manipulatives Kit; Cube Shaped Blocks; Graph Paper; Classroom Aides 2, 6
J. Apply properties of equality and proportionality to solve problems involving congruent or similar figures; e.g., create a scale drawing.	SE/TE: 326-329, 396-397
	TR: Section 7-5, : Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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Correlated to:

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Patterns, Functions and Algebra	
A. Describe, extend and determine the rule for patterns and relationships occurring in numeric patterns, computation, geometry, graphs and other applications.	SE/TE: 42, 108-112, 162, 165, 195, 197, 216, 271, 437, 446
	TR: Section 3-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Calculator
B. Represent, analyze and generalize a variety of patterns and functions with tables, graphs, words and symbolic rules.	SE/TE: 42, 108-112, 162, 165, 195, 197, 216, 271, 437, 446
	TR: Section 3-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Calculator
C. Use variables to create and solve equations and inequalities representing problem situations.	SE/TE: T55, 130-141, 142-143, 240-243, 563, 572-576, 582-585
	TR: Section 3-5, 3-6, 3-7, 3-8, 5-6, 12-1, 12-3: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Algebra Tiles; Student Manipulatives Kit; Classroom Aid 37
D. Use symbolic algebra to represent and explain mathematical relationships.	SE/TE: T55, 113-123, 130-141, 142-143, 240-243, 563, 572-576, 582-585
	TR: Section 3-2, 3-3, 3-5, 3-6, 3-7, 5-6, 12-1, 12-3: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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E. Use rules and variables to describe patterns, functions and other relationships.	SE/TE: 108-112, 563
	TR: Section 3-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
F. Use representations, such as tables, graphs and equations, to model situations and to solve problems, especially those that involve linear relationships.	SE/TE: 124-129, 130-141, 240-243, 558-562, 572-576
	TR: Section 3-1, 3-5, 3-6, 3-7, 5-6, 11-10, 12-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Algebra Tile; Student Manipulatives Kit; Classroom Aid 37
G. Write, simplify and evaluate algebraic expressions.	SE/TE: 113-123
	TR: Section 3-2, 3-3: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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H. Solve linear equations and inequalities symbolically, graphically and numerically.	SE/TE: 124-129, 130-141, 240-243, 572-576, 582-585
	TR: Section 3-4, 3-5, 3-6, 3-7, 5-6, 12-1, 12-3: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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I. Explain how inverse operations are used to solve linear equations.	SE/TE: 124-129, 130-141, 240-243, 572-576
	TR: Section 3-4, 3-5, 3-6, 3-7, 5-6, 12-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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J. Use formulas in problem-solving situations.	SE/TE: 81-84, 426-435, 439-447, 457-460, 463-466, 483-486, 488-491, 501-505
	TR: Section 2-5, 9-3, 9-5, 9-6, 9-9, 9-10, 10-2, 10-3, 10-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Graph Paper, Centimeter Cubes
K. Graph linear equations and inequalities.	SE/TE: 558-563
	TR: Section 11-10: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Graph Paper
L. Analyze functional relationships, and explain how a change in one quantity results in a change in the other.	SE/TE: 558-562, 576
	TR: Section 11-10: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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M. Approximate and interpret rates of change from graphical and numerical data.	SE/TE: 558-563

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	TR: Section 11-10: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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Data Analysis and Probability	
A. Read, create and use line graphs, histograms, circle graphs, box-and-whisker plots, stem-and-leaf plots, and other representations when appropriate.	SE/TE: 70-84, 86-90, 93-97, 104-105
	TR: Section 2-3, 2-4, 2-5, 2-6, 2-7, : Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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B. Interpret data by looking for patterns and relationships, draw and justify conclusions, and answer related questions.	SE/TE: 70-84, 86-90, 93-97,104-105
	TR: Section 2-3, 2-4, 2-5, 2-6, 2-7, : Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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C. Evaluate interpretations and conclusions as additional data are collected, modify conclusions and predictions, and justify new findings.	SE/TE: 97, 494-497
	TR: Section 10-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.

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D. Compare increasingly complex displays of data, such as multiple sets of data on the same graph.	SE/TE: 79
E. Collect, organize, display and interpret data for a specific purpose or need.	SE/TE: 60-64, 66-69, 70-84, 86-90, 93-97,104-105, 494-498, 507
	TR: Section 2-1, 2-2, 2-3, 2-4, 2-5, 2-6, 2-7, 10-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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F. Determine and use the range, mean, median and mode to analyze and compare data, and explain what each indicates about the data.	SE/TE: 60-64, 65-69, 71
	TR: Section 2-1, 2-2: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Counters; Classroom Aid 7
G. Evaluate conjectures and predictions based upon data presented in tables and graphs, and identify misuses of statistical data and displays.	SE/TE: 60-64, 66-69, 70-84, 86-90, 93-97,104-105, 494-498, 507
	TR: Section 2-1, 2-2, 2-3, 2-4, 2-5, 2-6, 2-7, 10-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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H. Find all possible outcomes of simple experiments or problem situations, using methods such as lists, arrays and tree diagrams.	SE/TE: 476-481
	TR: Section 10-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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I. Describe the probability of an event using ratios, including fractional notation.	SE/TE: 482-486
	TR: Section 10-2: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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J. Compare experimental and theoretical results for a variety of simple experiments.	SE/TE: 488-492
	TR: Section 10-3: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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K. Make and justify predictions based on experimental and theoretical probabilities.	SE/TE: 494-497
	TR: Section 10-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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Mathematical Processes	

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A. Clarify problem-solving situation and identify potential solution processes; e.g., consider different strategies and approaches to a problem, restate problem from various perspectives.	SE/TE: 28, 88, 120, 189, 234, 268, 322, 369, 428, 478, 560, 574
B. Apply and adapt problem-solving strategies to solve a variety of problems, including unfamiliar and non-routine problem situations.	SE/TE: T22, T46-T55, 49-50, 91-92, 142-143, 196-197, 244-245, 286-287, 346-347, 396-397, 442-443, 505-506, 538-539, 595-596
C. Use more than one strategy to solve a problem, and recognize there are advantages associated with various methods.	SE/TE: 28, 88, 120, 189, 234, 268, 322, 369, 428, 478, 560, 574
D. Recognize whether an estimate or an exact solution is appropriate for a given problem situation.	SE/TE: 8-11, 212-214, 348-351, 445-446, 597, 646
E. Use deductive thinking to construct informal arguments to support reasoning and to justify solutions to problems.	SE/TE: 12-15, 62, 67, 93, 94, 137, 174, 191, 202, 209, 227, 265, 319, 323, 330, 429, 431, 518, 546
F. Use inductive thinking to generalize a pattern of observations for particular cases, make conjectures, and provide supporting arguments for conjectures	SE/TE: 42, 108, 112, 122, 150, 161, 165, 181, 195, 216, 379, 385, 430, 437, 446, 457, 537, 547, 603
G. Relate mathematical ideas to one another and to other content areas; e.g., use area models for adding fractions, interpret graphs in reading, science and social studies.	SE/TE: T21, 216, 221, 222
H. Use representations to organize and communicate mathematical thinking and problem solutions.	SE/TE: Sample pages: T48-T52, T55, 117, 175, 216, 221, 330, 352, 523, 558
I. Select, apply, and translate among mathematical representations to solve problems; e.g., representing a number as a fraction, decimal or percent as appropriate for a problem.	SE/TE: 331-334
	TR: Section 7-6: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook

Ohio Benchmarks for Grades 5-7 and Grade Level Indicators for Grade 6	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
J. Communicate mathematical thinking to others and analyze the mathematical thinking and strategies of others.	SE/TE: 28, 88, 120, 189, 234, 268, 322, 369, 428, 478, 560, 574
K. Recognize and use mathematical language and symbols when reading, writing and conversing with others.	SE/TE: Sample pages: 3, 8, 36, 38, 44, 65, 128, 187, 425, 578

Ohio Benchmarks for Grades 5-7 and Grade Level Indicators for Grade 6	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
Grade Six	
Number, Number Sense and Operations Standard	
Number and Number Systems	
1. Decompose and recompose whole numbers using factors and exponents (e.g., $32 = 2 \times 2 \times 2 \times 2 \times 2 = 25$), and explain why "squared" means "second power" and "cubed" means "third power."	SE/TE: 162-168
	TR: Section 4-2, 4-3: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
2. Find and use the prime factorization of composite numbers. For example:	
a. Use the prime factorization to recognize the greatest common factor (GCF).	SE/TE: 171-174
	TR: Section 4-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
b. Use the prime factorization to recognize the least common multiple (LCM).	SE/TE: 188-191
	TR: Section 4-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
c. Apply the prime factorization to solve problems and explain solutions.	SE/TE: 166-169
	TR: Section 4-3: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook

Ohio Benchmarks for Grades 5-7 and Grade Level Indicators for Grade 6	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
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 .	SE/TE: 175, 306, 588-589
	TR: Section 12-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Calculator
4. Describe what it means to find a specific percent of a number, using real-life examples.	SE/TE: 336-339
	TR: Section 7-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
5. Use models and pictures to relate concepts of ratio, proportion and percent, including percents less than 1 and greater than 100.	SE/TE: 310, 323, 324, 326, 327, 328, 329, 330, 333, 352
Meaning of Operations	
6. Use the order of operations, including the use of exponents, decimals and rational numbers, to simplify numerical expressions.	SE/TE: 16-19, 163
7. Use simple expressions involving integers to represent and solve problems; e.g., if a running back loses 15 yards on the first carry but gains 8 yards on the second carry, what is the net gain/loss?	SE/TE: 526-527, 531-533, 535-539, 540-542
	TR: Section 11-3, 11-4, 11-5, 11-6: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook

Ohio Benchmarks for Grades 5-7 and Grade Level Indicators for Grade 6	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
8. Represent multiplication and division situations involving fractions and decimals with models and visual representations; e.g., show with pattern blocks what it means to take $2 \frac{2}{3} / \frac{1}{6}$.	SE/TE: 37-38, 45-46, 260-262, 264, 271-272, 276, 286
	TR: Section 1-8, 1-9, 6-1, 6-3: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Graph Paper; Classroom Aids 2, 10; Student Manipulatives Kit; Scissors; Compass; Straightedge
9. Give examples of how ratios are used to represent comparisons; e.g., part-to-part, part-to-whole, whole-to-part.	SE/TE: 306-311
	TR: Section 7-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
10. Recognize that a quotient may be larger than the dividend when the divisor is a fraction; e.g., $6 \div \frac{1}{2} = 12$.	SE/TE: 271
Computation and Estimation	
11. Perform fraction and decimal computations and justify their solutions; e.g., using manipulatives, diagrams, mathematical reasoning.	SE/TE: 32-35, 37-42, 44-48, 216-225, 227-237, 260-264, 266-280
	TR: Section 1-7, 1-8, 1-9, 5-2, 5-3, 5-4, 5-5, 6-1, 6-2, 6-3, 6-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Graph Paper; Classroom Aid 2, 10, 11; Fraction Calculator; Algebra Tiles

Ohio Benchmarks for Grades 5-7 and Grade Level Indicators for Grade 6	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
12. Develop and analyze algorithms for computing with fractions and decimals, and demonstrate fluency in their use.	SE/TE: 32-35, 37-42, 44-48, 216-225, 227-237, 260-264, 266-280
	TR: Section 1-7, 1-8, 1-9, 5-2, 5-3, 5-4, 5-5, 6-1, 6-2, 6-3, 6-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Graph Paper; Classroom Aid 2, 10, 11; Fraction Calculator; Algebra Tiles
13. Estimate reasonable solutions to problem situations involving fractions and decimals; e.g., $7/8 + 12/13 \approx 2$ and $4.23 \times 5.8 \approx 25$.	SE/TE: 32-34, 44, 212-215, 266-269, 276-278
	TR: Section 1-7, 5-1, 6-2, 6-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
14. Use proportional reasoning, ratios and percents to represent problem situations and determine the reasonableness of solutions.	SE/TE: 306-310, 316-324, 326-330, 336-339
	TR: Section 7-1, 7-3, 7-4, 7-5, 7-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Graph Paper; Algebra Tiles; Student Manipulatives Kit
15. Determine the percent of a number and solve related problems; e.g., find the percent markdown if the original price was \$140, and the sale price is \$100.	SE/TE: 336-339
	TR: Section 7-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.

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	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
Measurement Standard	
Measurement Units	
1. Understand and describe the difference between surface area and volume.	SE/TE: 453-466
	TR: Section 9-8, 9-9: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Centimeter Cubes; Graph Paper; Scissors
Use Measurement Techniques and Tools	
2. Use strategies to develop formulas for finding circumference and area of circles, and to determine the area of sectors; e.g., 1/2 circle, 2/3 circle, 1/3 circle, 1/4 circle.	SE/TE: 437-441, 444-447
	TR: Section 9-5, 9-6: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Metric Tape Measure; Calculator
3. Estimate perimeter or circumference and area for circles, triangles and quadrilaterals, and surface area and volume for prisms and cylinders by:	
a. estimating lengths using string or links, areas using tiles or grid, and volumes using cubes;	SE/TE: 289-290, 416, 457-460
	TR: Section 6-6, 9-9: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Centimeter Cubes; Graph Paper

Ohio Benchmarks for Grades 5-7 and Grade Level Indicators for Grade 6	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
b. measuring attributes (diameter, side lengths, or heights) and using established formulas for circles, triangles, rectangles, parallelograms and rectangular prisms.	SE/TE: 426-430, 437-441, 453-456
	TR: Section 9-3, 9-5, 9-8: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Metric Tape Measure; Calculator
4. Determine which measure (perimeter, area, surface area, volume) matches the context for a problem situation; e.g., perimeter is the context for fencing a garden, surface area is the context for painting a room.	SE/TE: 442-443
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.	SE/TE: 430
6. Describe what happens to the perimeter and area of a two-dimensional shape when the measurements of the shape are changed; e.g. length of sides are doubled.	SE/TE: 430, 434-435
Geometry and Spatial Sense Standard	
Characteristics and Properties	
1. Classify and describe two-dimensional and three dimensional geometric figures and objects by using their properties; e.g., interior angle measures, perpendicular/parallel sides, congruent angles/sides.	SE/TE: 380-383, 385-390, 449-452
	TR: Section 8-4, 8-5, 9-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Protractor; Straightedge; Tape
2. Use standard language to define geometric vocabulary: vertex, face, altitude, diagonal, isosceles, equilateral, acute, obtuse and other vocabulary as appropriate.	SE/TE: 362-363, 367-368, 374-375, 378, 380-381, 386-387, 438-439, 449-450

Ohio Benchmarks for Grades 5-7 and Grade Level Indicators for Grade 6	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
3. Use multiple classification criteria to classify triangles; e.g., right scalene triangle.	SE/TE: 380-382
4. Identify and define relationships between planes; i.e., parallel, perpendicular and intersecting.	SE/TE: 363-365, 378
Spatial Relationships	
5. Predict and describe sizes, positions and orientations of two-dimensional shapes after transformations such as reflections, rotations, translations and dilations.	SE/TE: 402-406
	TR: Section 8-8: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Pattern Blocks; Ruler; Scissors
Transformations and Symmetry	
6. Draw similar figures that model proportional relationships; e.g., model similar figures with a 1 to 2 relationship by sketching two of the same figure, one with corresponding sides twice the length of the other.	SE/TE: 392-397
	TR: Section 8-6: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
Visualization and Geometric Models	
7. Build three-dimensional objects with cubes, and sketch the two-dimensional representations of each side; i.e., projection sets.	SE/TE: 448
Patterns, Functions and Algebra Standard	
Use Patterns, Relations and Functions	
1. Represent and analyze patterns, rules and functions, using physical materials, tables and graphs.	SE/TE: 108-112, 117-123
2. Use words and symbols to describe numerical and geometric patterns, rules and functions.	SE/TE: 108-112, 117-123, 562
	TR: Section 3-1, 3-3: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.

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	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Classroom Aid 37; Student Manipulatives Kit; Algebra Tiles
Use Algebraic Representations	
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; e.g., perimeter as $2(l + w)$ or $2l + 2w$.	SE/TE: 117, 126-127
4. Solve simple linear equations and inequalities using physical models, paper and pencil, tables and graphs.	SE/TE: 558-562, 572-576, 578-584
	TR: Section 11-10, 12-1, 12-2: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Algebra Tiles; Graph Paper
5. Produce and interpret graphs that represent the relationship between two variables.	SE/TE: 558-562, 572-576
	TR: Section 11-10, 12-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Algebra Tiles; Graph Paper
6. Evaluate simple expressions by replacing variables with given values, and use formulas in problem-solving situations.	SE/TE: 80-83, 113-117, 426-427, 432-433, 439-440, 444-445, 458-459, 463-464, 488,
	TR: Section 2-5, 3-2, 9-3, 9-4, 9-5, 9-6, 9-9, 9-10: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook

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Analyze Change	
7. Identify and describe situations with constant or varying rates of change, and compare them.	SE/TE: 75, 79, 312-315, 395, 555-562
8. Use technology to analyze change; e.g., use computer applications or graphing calculators to display and interpret rate of change.	SE/TE: 84
Data Analysis and Probability Standard	
Data Collection	
1. Read, construct and interpret line graphs, circle graphs and histograms.	SE/TE: 75-77, 79, 340-344, 383, 401, 456, 555-557
	TR: Section 2-4, 7-8, : Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Compass; Student Manipulatives Kit
2. Select, create and use graphical representations that are appropriate for the type of data collected.	SE/TE: 75-76
3. Compare representations of the same data in different types of graphs, such as a bar graph and circle graph.	SE/TE: 79
Statistical Methods	
4. Understand the different information provided by measures of center (mean, mode and median) and measures of spread (range).	SE/TE: 60-64, 66-69, 71-73
5. Describe the frequency distribution of a set of data, as shown in a histogram or frequency table, by general appearance or shape; e.g., number of modes, middle of data, level of symmetry, outliers.	SE/TE: 63, 66-68, 70-73, 77, 88
6. Make logical inferences from statistical data.	SE/TE: 48, 202, 239, 585
Probability	
7. Design an experiment to test a theoretical probability and explain how the results may vary.	SE/TE: 492