

Prentice Hall Mathematics Course 2 © 2008
Correlated to:
Ohio Benchmarks for Grades 5-7 and Grade Level Indicators
(Grade 7)

Ohio Benchmarks for grades 5-7 and Grade Level Indicators for Grade 7	PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
Number, Number Sense and Operations	
A. Represent and compare numbers less than 0 through familiar applications and extending the number line.	SE/TE: 31-34, 102-105
	TR: Section 1-6, 2-7: 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
B. Compare, order and convert among fractions, decimals and percents.	SE/TE: 278-287
	TR: Section 6-2, 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
C. Develop meaning for percents, including percents greater than 100 and less than 1.	SE/TE: 274-277, 284-287
	TR: Section 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
D. Use models and pictures to relate concepts of ratio, proportion and percent.	SE/TE: 228, 232-234, 241, 251-255, 258-264, 274-277, 284-287
E. Use order of operations, including use of parenthesis and exponents to solve multi-step problems, and verify and interpret the results.	SE/TE: 48-51, 68-72
	TR: Section 1-9, 2-1: 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
F. Apply number system properties when performing computations.	SE/TE: 9-10, 15-16, 49-50, 52, 180-184, 186-190, 210-217, 239
G. Apply and explain the use of prime factorizations, common factors, and common multiples in problem situations.	SE/TE: 74-78, 80-81
	TR: Section 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
H. Use and analyze the steps in standard and non-standard algorithms for computing with fractions, decimals and integers.	SE/TE: 8-10, 12-17, 19-23, 36-47, 126-133, 135-145
	TR: Section 1-2, 1-3, 1-4, 3-2, 3-3, 3-4, 3-5: 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; Grid Model; Classroom Aid 2, 16, 17; Student Manipulatives Kit
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: 8-10, 12-17, 19-23, 36-47, 126-133, 135-145, 294-308, 310-314
	TR: Section 1-2, 1-3, 1-4, 3-2, 3-3, 3-4, 3-5, 6-5, 6-6, 6-7, 6-8: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.

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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: 148-151, 154-158, T670
	TR: Section 3-6, 3-7: 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
<ul style="list-style-type: none"> • metric units; e.g., square meters, kilograms and other units as appropriate. 	SE/TE: 26-30, 158, 667-669, T670
	TR: Section 1-5: 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
B. Convert units of length, area, volume, mass and time within the same measurement system.	SE/TE: 26-30, 148-151, 667-669, T670
	TR: Section 1-5, 3-6, 3-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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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: 329-334, 337-338, 374-392, 394-399, 414-418, 421-427
	TR: Section 7-2, 7-3, 8-1, 8-2, 8-3, 8-4, 8-9, 8-10: 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; Protractor
D. Select a tool and measure accurately to a specified level of precision.	SE/TE: 154-157, 329
	TR: Section 3-7: 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; Ruler; Protractor
E. Use problem solving techniques and technology as needed to solve problems involving length, weight, perimeter, area, volume, time and temperature.	SE/TE: 252-256, 258-264, 335, 361-365, 379-392, 394-399, 404-408, 421-426
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: 382, 387, 392, 418, 424
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: 374-377, 384-387, 414, 421
Geometry and Spatial Sense	
A. Identify and label angle parts and the regions defined within the plane where the angle resides.	SE/TE: 329-334

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B. Draw circles, and identify and determine the relationships among the radius, diameter, center and circumference.	SE/TE: 350-353
C. Specify locations and plot ordered pairs on a coordinate plane.	SE/TE: 486-489
	TR: Section 10-1: 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; Graph Paper
D. Identify, describe and classify types of line pairs, angles, two-dimensional figures and three-dimensional objects using their properties.	SE/TE: 324-327, 330-334, 336-344, 410-413
	TR: Section 7-1, 7-2, 7-3, 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
E. Use proportions to express relationships among corresponding parts of similar figures.	SE/TE: 252-256
	TR: Section 5-5: 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
F. Describe and use the concepts of congruence, similarity and symmetry to solve problems.	SE/TE: 251-256, 346-349, 514-517

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	TR: Section 5-5, 7-5, 10-6: 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; Protractor; Centimeter Ruler; Student Manipulatives Kit; Computer
G. Describe and use properties of triangles to solve problems involving angle measures and side lengths of right triangles.	SE/TE: 336-339, 404-408
	TR: Section 7-3, 8-7: 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; Straightedge; Compass; Scissors; Classroom Aid 2
H. Predict and describe results (size, position, orientation) of transformations of two-dimensional figures.	SE/TE: 509-522
	TR: Section 10-5, 10-6, 10-7: 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; Pattern Blocks
I. Identify and draw three-dimensional objects from different views (top, side, front and perspective).	SE/TE: 409, 411-412
J. Apply properties of equality and proportionality to solve problems involving congruent or similar figures; e.g., create a scale drawing.	SE/TE: 252-256, 346-349
	TR: Section 5-5, 7-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.

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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: T49, 21, 71, 168, 363, 404, 419, 436-449, 451
B. Represent, analyze and generalize a variety of patterns and functions with tables, graphs, words and symbolic rules.	SE/TE: T49, 21, 71, 168, 363, 404, 419, 436-449, 451
	TR: Section 9-1, 9-2, 9-3: 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; Calculator; Pattern Blocks
C. Use variables to create and solve equations and inequalities representing problem situations.	SE/TE: Sample pages: T55, 169, 170, 177, 184, 193, 199, 204, 211, 249-250
D. Use symbolic algebra to represent and explain mathematical relationships.	SE/TE: 56, 169-172
	TR: Section 4-1: 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
E. Use rules and variables to describe patterns, functions and other relationships.	SE/TE: 168, 173, 185, 452-455, 511-512
	TR: Section 9-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.

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F. Use representations, such as tables, graphs and equations, to model situations and to solve problems, especially those that involve linear relationships.	SE/TE: T48, T52, T55, 491-494
	TR: Section 10-2: 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; Graph paper
G. Write, simplify and evaluate algebraic expressions.	SE/TE: 169-173, 194-198
	TR: Section 4-1, 4-5: 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; Classroom Aid 4
H. Solve linear equations and inequalities symbolically, graphically and numerically.	SE/TE: 174-184, 186-190, 199-208, 210-218, 491-494
	TR: Section 4-2, 4-3, 4-4, 4-6, 4-7, 4-8, 4-9: 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; Algebra Tiles
I. Explain how inverse operations are used to solve linear equations.	SE/TE: 181, 186, 188, 210,
J. Use formulas in problem-solving situations.	SE/TE: 173, 304-305, 375, 379-383, 385-386, 388-391, 394-395, 422-424, 426, 427, 451, 580-583, 586-587
K. Graph linear equations and inequalities.	SE/TE: 183, 205-207, 491-494

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	TR: Section 4-7, 10-2: 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; Graph paper
L. Analyze functional relationships, and explain how a change in one quantity results in a change in the other.	SE/TE: 495
M. Approximate and interpret rates of change from graphical and numerical data.	SE/TE: 309, 310-314
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: 58, 354-360, 532-548, 557, 567-570
	TR: Section 7-7, 11-1, 11-2, 11-3, 11-7: 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: 571
C. Evaluate interpretations and conclusions as additional data are collected, modify conclusions and predictions, and justify new findings.	SE/TE: 549-533, 558-559, 571
D. Compare increasingly complex displays of data, such as multiple sets of data on the same graph.	SE/TE: 539-542, 557, 566, 571
E. Collect, organize, display and interpret data for a specific purpose or need.	SE/TE: 549-533
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: 53-57, 558-559

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	TR: Section 1-10: 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
G. Evaluate conjectures and predictions based upon data presented in tables and graphs, and identify misuses of statistical data and displays.	SE/TE: 560-564
	TR: Section 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
H. Find all possible outcomes of simple experiments or problem situations, using methods such as lists, arrays and tree diagrams.	SE/TE: 75-76, 591-595
	TR: Section 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
I. Describe the probability of an event using ratios, including fractional notation.	SE/TE: 580-583
	TR: Section 12-1: 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: 585-589
	TR: Section 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
K. Make and justify predictions based on experimental and theoretical probabilities.	SE/TE: 585-589, 596
	TR: Section 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
Mathematical Processes	
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, 76, 143, 202, 246, 312, 332, 390, 473, 505, 534, 600
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
C. Use more than one strategy to solve a problem, and recognize there are advantages associated with various methods.	SE/TE: 28, 76, 143, 202, 246, 312, 332, 390, 473, 505, 534, 600
D. Recognize whether an estimate or an exact solution is appropriate for a given problem situation.	SE/TE: 8, 14
E. Use deductive thinking to construct informal arguments to support reasoning and to justify solutions to problems.	SE/TE: Sample pages: 9, 49, 146, 175, 269, 302, 369, 466, 558, 604

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F. Use inductive thinking to generalize a pattern of observations for particular cases, make conjectures, and provide supporting arguments for conjectures	SE/TE: 36, 168, 443, 446-447
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
H. Use representations to organize and communicate mathematical thinking and problem solutions.	SE/TE: 279-287
	TR: Section 6-2: 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
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: 279-287
	TR: Section 6-2: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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J. Communicate mathematical thinking to others and analyze the mathematical thinking and strategies of others.	SE/TE: 28, 76, 143, 202, 246, 312, 332, 390, 473, 505, 534, 600
K. Recognize and use mathematical language and symbols when reading, writing and conversing with others.	SE/TE: Sample pages: 159, 47, 111, 187, 217, 263, 363, 408, 464, 522

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Grade Seven	
Number, Number Sense and Operations Standard	
Number and Number Systems Meaning of Operations Computation and Estimation	
1. Demonstrate an understanding of place value using powers of 10 and write large numbers in scientific notation.	SE/TE: 2, 106-109, 658
	TR: Section 2-8: 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
2. Explain the meaning of exponents that are negative or 0.	SE/TE: 110
3. Describe differences between rational and irrational numbers; e.g., use technology to show that some numbers (rational) can be expressed as terminating or repeating decimals and others (irrational) as non-terminating and non-repeating decimals.	SE/TE: 401-403
4. Use order of operations and properties to simplify numerical expressions involving integers, fractions and decimals.	SE/TE: 9-10, 15-16, 48-52, 69-70, 180-181, 186-188, 239
5. Explain the meaning and effect of adding, subtracting, multiplying and dividing integers; e.g., how adding two integers can result in a lesser value.	SE/TE: 36-47
6. Simplify numerical expressions involving integers and use integers to solve real-life problems.	SE/TE: 36-47, 64-65
	TR: Section 1-7, 1-8: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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7. Solve problems using the appropriate form of a rational number (fraction, decimal or percent).	SE/TE: 279-287
	TR: Section 6-2: 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
8. Develop and analyze algorithms for computing with percents and integers, and demonstrate fluency in their use.	SE/TE: 36-47, 290-308, 310-314
	TR: Section 1-7, 1-8, 6-4, 6-5, 6-6, 6-7, 6-8: 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; Algebra Tiles; Classroom Aid 37; Student Manipulatives Kit
9. Represent and solve problem situations that can be modeled by and solved using concepts of absolute value, exponents and square roots (for perfect squares).	SE/TE: 31-34, 68-71, 110, 400-403, 505-507,
Measurement Standard	
Measurement Units Use Measurement Techniques and Tools	
1. Select appropriate units for measuring derived measurements; e.g., miles per hour, revolutions per minute.	SE/TE: 232-234
2. Convert units of area and volume within the same measurement system using proportional reasoning and a reference table when appropriate; e.g., square feet to square yards, cubic meters to cubic centimeters.	SE/TE: CBDF: 26-30, 148-151, 667
3. Estimate a measurement to a greater degree of precision than the tool provides.	SE/TE: 154-157

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	TR: Section 3-7: 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
4. Solve problems involving proportional relationships and scale factors; e.g., scale models that require unit conversions within the same measurement system.	SE/TE: 258-264
	TR: Section 5-6: 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; Grid paper; Student Manipulatives Kit
5. Analyze problem situations involving measurement concepts, select appropriate strategies, and use an organized approach to solve narrative and increasingly complex problems.	SE/TE: 26-30, 148-151, 154-158, 374-378
6. Use strategies to develop formulas for finding area of trapezoids and volume of cylinders and prisms.	SE/TE: 389-392, 421-426
7. Develop strategies to find the area of composite shapes using the areas of triangles, parallelograms, circles and sectors.	SE/TE: 374-378, 388-392
8. Understand the difference between surface area and volume and demonstrate that two objects may have the same surface area, but different volumes or may have the same volume, but different surface areas.	SE/TE: 414-419, 421-425
	TR: Section 8-9, 8-10: 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
9. Describe what happens to the surface area and volume of a three- dimensional object when the measurements of the object are changed; e.g., length of sides are doubled.	SE/TE: 418, 419, 424
Geometry and Spatial Sense Standard	
Characteristics and Properties Spatial Relationships Transformations and Symmetry Visualization and Geometric Models	
1. Use proportional reasoning to describe and express relationships between parts and attributes of similar and congruent figures.	SE/TE: 252-255, 346-348
	TR: Section 5-5, 7-5: 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
2. Determine sufficient (not necessarily minimal) properties that define a specific two-dimensional figure or three-dimensional object. For example:	
a. Determine when one set of figures is a subset of another; e.g., all squares are rectangles.	SE/TE: 340-344
	TR: Section 7-4: 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. Develop a set of properties that eliminates all but the desired figure; e.g., only squares are quadrilaterals with all sides congruent and all angles congruent.	SE/TE: 336-338, 342, 409-413

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	TR: Section 7-3, 7-4, 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; Cubes; Classroom Aid 2
3. Use and demonstrate understanding of the properties of triangles. For example:	
a. Use Pythagorean Theorem to solve problems involving right triangles.	SE/TE: 404-408
	TR: Section 8-7: 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; Classroom Aid 2; Compass; Straightedge
b. Use triangle angle sum relationships to solve problems.	SE/TE: 335, 337-339
	TR: Section 7-3: 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
4. Determine necessary conditions for congruence of triangles.	
	TR: Section 7-5: 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
5. Apply properties of congruent or similar triangles to solve problems involving missing lengths and angle measures.	
	SE/TE: 346-349

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	TR: Section 7-5: 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
6. Determine and use scale factors for similar figures to solve problems using proportional reasoning.	SE/TE: 252-255
	TR: Section 5-5: 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
7. Identify the line and rotation symmetries of two-dimensional figures to solve problems.	SE/TE: 514—517, 519-522
	TR: Section 10-6, 10-7: 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
8. Perform translations, reflections, rotations and dilations of two-dimensional figures using a variety of methods (paper folding, tracing, graph paper).	SE/TE: 509-522
	TR: Section 10-5, 10-6, 10-7: 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; Pattern Blocks; Graph paper

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9. Draw representations of three-dimensional geometric objects from different views.	SE/TE: 409, 411-412
Patterns, Functions and Algebra Standard	
Use Patterns, Relations and Functions Use Algebraic Representations Analyze Change	
1. Represent and analyze patterns, rules and functions with words, tables, graphs and simple variable expressions.	SE/TE: T49, 21, 71, 168, 363, 404, 419, 436-449, 451, 452-455
	TR: Section 9-1, 9-2, 9-3, 9-4: 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
2. Generalize patterns by describing in words how to find the next term.	SE/TE: T49, 21, 71, 168, 363, 404, 419, 436-449
	TR: Section 9-1, 9-2, 9-3: 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
3. Recognize and explain when numerical patterns are linear or nonlinear progressions; e.g., 1, 3, 5, 7... is linear and 1, 3, 4, 8, 16... is nonlinear.	SE/TE: 492
4. Create visual representations of equation solving processes that model the use of inverse operations.	SE/TE: 178-179, 180, 195, 196, 199
5. Represent linear equations by plotting points in the coordinate plane.	SE/TE: 492-497
	TR: Section 10-2: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.

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6. Represent inequalities on a number line or a coordinate plane.	SE/TE: 205-207
	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
7. Justify that two forms of an algebraic expression are equivalent, and recognize when an expression is simplified; e.g., $4m = m + m + m + m$ or $a \cdot 5 + 4 = 5a + 4$.	SE/TE: 49, 169-172
	TR: Section 4-1: 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
8. Use formulas in problem-solving situations.	SE/TE: 173, 304-305, 375, 379-383, 385-386, 388-391, 394-395, 422-424, 426, 427, 451, 580-583, 586-587
9. Recognize a variety of uses for variables; e.g., placeholder for an unknown quantity in an equation, generalization for a pattern, formula.	SE/TE: 169
10. Analyze linear and simple nonlinear relationships to explain how a change in one variable results in the change of another.	SE/TE: 491-497, 504-507
11. Use graphing calculators or computers to analyze change; e.g., distance-time relationships.	SE/TE: 460, 502

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Data Analysis and Probability Standard	
Data Collection Statistical Methods Probability	
1. Read, create and interpret box-and-whisker plots, stem-and-leaf plots, and other types of graphs, when appropriate.	SE/TE: 58, 538-542, 544-547
	TR: Section 11-2, 11-3: 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. Analyze how decisions about graphing affect the graphical representation; e.g., scale, size of classes in a histogram, number of categories in a circle graph.	SE/TE: 548, 560-564
	TR: Section 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
3. Analyze a set of data by using and comparing combinations of measures of center (mean, mode, median) and measures of spread (range, quartile, interquartile range), and describe how the inclusion or exclusion of outliers affects those measures.	SE/TE: 53-57, 545, 561
	TR: Section 1-10: 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
4. Construct opposing arguments based on analysis of the same data, using different graphical representations.	SE/TE: 560-564

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	TR: Section 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
5. Compare data from two or more samples to determine how sample selection can influence results.	SE/TE: 549-553
	TR: Section 11-4: 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
6. Identify misuses of statistical data in articles, advertisements, and other media.	SE/TE: 560-564
	TR: Section 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
7. Compute probabilities of compound events; e.g., multiple coin tosses or multiple rolls of number cubes, using such methods as organized lists, tree diagrams and area models.	SE/TE: 597-602
	TR: Section 12-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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8. Make predictions based on theoretical probabilities, design and conduct an experiment to test the predictions, compare actual results to predicted results, and explain differences.	SE/TE: 580-583
	TR: Section 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