

**Prentice Hall Mathematics, Course 3 © 2008**  
**Correlated to:**  
**Ohio Benchmarks for Grades 8-10 and Grade Level Indicators**  
**(Grade 8)**

<b>Ohio Benchmark Standards Grades 8-10 and Grade 8 Indicators</b>	<b>PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))</b>
Grade Eight	
Number, Number Sense and Operations	
A. Use scientific notation to express large numbers and numbers less than one.	<b>SE/TE:</b> 92-96
	<b>TR:</b> Section 2-8: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
B. Identify subsets of the real number system.	<b>SE/TE:</b> 107-108
C. Apply properties of operations and the real number system, and justify when they hold for a set of numbers.	<b>SE/TE:</b> 26-29
	<b>TR:</b> Section 1-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
D. Connect physical, verbal and symbolic representations of integers, rational numbers and irrational numbers.	<b>SE/TE:</b> 10-13, 57-61, 106-110
	<b>TR:</b> Section 1-2, 2-2, 3-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
E. Compare, order and determine equivalent forms of real numbers.	<b>SE/TE:</b> 10-13, 57-65, 86-88, 92-95, 210-213
	<b>TR:</b> Section 1-2, 2-2, 2-7, 2-8, 5-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.

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	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
F. Explain the effects of operations on the magnitude of quantities.	<b>SE/TE:</b> 15, 20-21, 66-67, 71-73
G. Estimate, compute and solve problems involving real numbers, including ratio, proportion and percent, and explain solutions.	<b>SE/TE:</b> 15-25, 66-69, 71-76, 160-164, 174-179, 181-184, 218-222, 224-227, 230-239, 242-244
	<b>TR:</b> Section 1-3, 2-4, 2-5, 4-1, 4-3, 4-4, 5-3, 5-4, 5-5, 5-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
H. Find the square root of perfect squares, and approximate the square root of non-perfect squares.	<b>SE/TE:</b> 106-110
	<b>TR:</b> Section 3-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
I. Estimate, compute and solve problems involving scientific notation, square roots and numbers with integer exponents.	<b>SE/TE:</b> 92-96, 106-110, 575, 581-585
	<b>TR:</b> Section 2-8, 3-1, 12-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Scientific Calculator

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Measurement	
A. Solve increasingly complex non-routine measurement problems and check for reasonableness of results.	<b>SE/TE:</b> 96, 165-170, 198-200, 314, 402
B. Use formulas to find surface area and volume for specified three-dimensional objects accurate to a specified level of precision.	<b>SE/TE:</b> 367-396
	<b>TR:</b> Section 8-4, 8-5, 8-6, 8-7, 8-8, 8-9: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
C. Apply indirect measurement techniques, tools and formulas, as appropriate, to find perimeter, circumference and area of circles, triangles, quadrilaterals and composite shapes, and to find volume of prisms, cylinders, and pyramids.	<b>SE/TE:</b> 81-85, 111, 185, 328-334, 336-339, 380-391
D. Use proportional reasoning and apply indirect measurement techniques, including right triangle trigonometry and properties of similar triangles, to solve problems involving measurements and rates.	<b>SE/TE:</b> 111-115, 125, 126, 181-184
	<b>TR:</b> Section 3-2, 4-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
E. Estimate and compute various attributes, including length, angle measure, area, surface area and volume, to a specified level of precision.	<b>SE/TE:</b> 81-85, 304-311, 368-378, 380-396, 461, 640
F. Write and solve real-world, multi-step problems involving money, elapsed time and temperature, and verify reasonableness of solutions.	<b>SE/TE:</b> 18, 35, 65, 80, 82, 175, 178, 232, 235, 236, 242-244

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Geometry and Spatial Sense	
A. Formally define geometric figures.	<b>SE/TE:</b> 303-304, 307-308, 312, 318-320, 322, 325, 336, 354
	<b>TR:</b> Section 7-1, 7-2, 7-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
B. Describe and apply the properties of similar and congruent figures; and justify conjectures involving similarity and congruence.	<b>SE/TE:</b> 181-185, 187-191, 197-200, 312-316
	<b>TR:</b> Section 4-4, 4-5, 4-7, 7-3: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
C. Recognize and apply angle relationships in situations involving intersecting lines, perpendicular lines and parallel lines.	<b>SE/TE:</b> 302-311
	<b>TR:</b> Section 7-1, 7-2: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Protractor
D. Use coordinate geometry to represent and examine the properties of geometric figures.	<b>SE/TE:</b> 136-144, 147-148, 315, 321,
	<b>TR:</b> Section 3-6, 3-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.

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	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
E. Draw and construct representations of two- and three-dimensional geometric objects using a variety of tools, such as straightedge, compass and technology.	<b>SE/TE:</b> 315-316, 320, 341-345, 358-363, 387
F. Represent and model transformations in a coordinate plane and describe the results.	<b>SE/TE:</b> 136-138, 141-144, 146-148, 187-190
G. Prove or disprove conjectures and solve problems involving two- and three-dimensional objects represented within a coordinate system.	<b>SE/TE:</b> 136-138, 141-144, 146-148, 187-190
	<b>TR:</b> Section 3-6, 3-7, 3-8, 4-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
H. Prove or disprove conjectures and solve problems involving two- and three-dimensional objects represented within a coordinate system.	<b>SE/TE:</b> 136-138, 141-144, 146-148, 187-190
	<b>TR:</b> Section 3-6, 3-7, 3-8, 4-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
I. Establish the validity of conjectures about geometric objects, their properties and relationships by counter-example, inductive and deductive reasoning, and critiquing arguments made by others.	<b>SE/TE:</b> 302, 305-306, 308-310, 315, 319, 321, 326-327, 332-333, 367, 378, 397
J. Use right triangle trigonometric relationships to determine lengths and angle measures.	<b>SE/TE:</b> Can be developed from: 112-115, 118-121

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Patterns, Functions and Algebra	
A. Generalize and explain patterns and sequences in order to find the next term and the nth term.	<b>SE/TE:</b> T49, 91, 129-133, 149, 195, 323, 397, 512-517, 570
	<b>TR:</b> Section 11-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
B. Identify and classify functions as linear or nonlinear, and contrast their properties using tables, graphs or equations.	<b>SE/TE:</b> 535-536, 546-548
	<b>TR:</b> Section 11-5, 11-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Graph paper
C. Translate information from one representation (words, table, graph or equation) to another representation of a relation or function.	<b>SE/TE:</b> 523-526, 533-538, 544-550
	<b>TR:</b> Section 11-3, 11-5, 11-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Graphing Calculator
D. Use algebraic representations, such as tables, graphs, expressions, functions and inequalities, to model and solve problem situations.	<b>SE/TE:</b> Sample pages: T52, T55, 24-25, 78-79, 116-117, 179-180, 240-241, 279-280, 333-334, 550
E. Analyze and compare functions and their graphs using attributes, such as rates of change, intercepts and zeros.	<b>SE/TE:</b> 523-526, 527-538, 544-550

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	<b>TR:</b> Section 11-3, 11-5, 11-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Graphing Calculator
F. Solve and graph linear equations and inequalities.	<b>SE/TE:</b> 535-536, 544-549
	<b>TR:</b> Section 11-5, 11-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Graphing Calculator
G. Solve quadratic equations with real roots by graphing, formula and factoring.	<b>SE/TE:</b> 546-549
	<b>TR:</b> Section 11-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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H. Solve systems of linear equations involving two variables graphically and symbolically.	<b>SE/TE:</b> 544
I. Model and solve problem situations involving direct and inverse variation.	<b>SE/TE:</b> 527, 531
J. Describe and interpret rates of change from graphical and numerical data.	<b>SE/TE:</b> 527
<b>Data Analysis and Probability</b>	
A. Create, interpret and use graphical displays and statistical measures to describe data; e.g., box-and-whisker plots, histograms, scatterplots, measures of center and variability.	<b>SE/TE:</b> 412-417, 418-427, 433-447, 450-453, 460

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	<b>TR:</b> Section 9-1, 9-2, 9-3, 9-5, 9-6, 9-7, 9-8: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
B. Evaluate different graphical representations of the same data to determine which is the most appropriate representation for an identified purpose.	<b>SE/TE:</b> 428-431, 456-459
	<b>TR:</b> Section 9-4, 9-9: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
C. Compare the characteristics of the mean, median and mode for a given set of data, and explain which measure of center best represents the data.	<b>SE/TE:</b> 412-417
	<b>TR:</b> Section 9-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
D. Find, use and interpret measures of center and spread, such as mean and quartiles, and use those measures to compare and draw conclusions about sets of data.	<b>SE/TE:</b> 412-417
	<b>TR:</b> Section 9-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.



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	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
E. Evaluate the validity of claims and predictions that are based on data by examining the appropriateness of the data collection and analysis.	<b>SE/TE:</b> 480-483
	<b>TR:</b> Section 10-3: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
F. Construct convincing arguments based on analysis of data and interpretation of graphs.	<b>SE/TE:</b> 412-417, 418-427, 433-447, 450-453, 460
	<b>TR:</b> Section 9-1, 9-2, 9-3, 9-5, 9-6, 9-7, 9-8: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
G. Describe sampling methods and analyze the effects of method chosen on how well the resulting sample represents the population.	<b>SE/TE:</b> 480-483
	<b>TR:</b> Section 10-3: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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H. Use counting techniques, such as permutations and combinations, to determine the total number of options and possible outcomes.	<b>SE/TE:</b> 474, 491-499

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	<b>TR:</b> Section 10-5, 10-6: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
I. Design an experiment to test a theoretical probability, and record and explain results.	<b>SE/TE:</b> 470-473
	<b>TR:</b> Section 10-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
J. Compute probabilities of compound events, independent events, and simple dependent events.	<b>SE/TE:</b> 485-489
	<b>TR:</b> Section 10-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Colored Cubes
K. Make predictions based on theoretical probabilities and experimental results.	<b>SE/TE:</b> 475-478
	<b>TR:</b> Section 10-2: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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<b>Mathematical Processes</b>	
A. Formulate a problem or mathematical model in response to a specific need or situation, determine information required to solve the problem, choose method for obtaining this information, and set limits for acceptable solution.	<b>SE/TE:</b> 24, 78, 116, 179, 240, 279, 333, 385, 454, 501, 544, 587
B. Apply mathematical knowledge and skills routinely in other content areas and practical situations.	<b>SE/TE:</b> T20-T21
C. Recognize and use connections between equivalent representations and related procedures for a mathematical concept; e.g., zero of a function and the x-intercept of the graph of the function, apply proportional thinking when measuring, describing functions, and comparing probabilities.	<b>SE/TE:</b> 246-247, 470-474, 527, 550
	<b>TR:</b> Section 5-8, 10-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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D. Apply reasoning processes and skills to construct logical verifications or counter-examples to test conjectures and to justify and defend algorithms and solutions.	<b>SE/TE:</b> Sample pages: 15, 19, 88, 116, 269, 280, 302, 323, 387, 431
E. Use a variety of mathematical representations flexibly and appropriately to organize, record and communicate mathematical ideas.	<b>SE/TE:</b> Sample pages: 9, 77, 116, 279, 333, 321, 454, 500, 544, 581, 587
F. Use precise mathematical language and notations to represent problem situations and mathematical ideas.	<b>SE/TE:</b> Sample pages: 3, 9, 105, 155, 205, 228, 286
G. Write clearly and coherently about mathematical thinking and ideas.	<b>SE/TE:</b> Sample pages: 19, 78, 116, 149, 240, 279, 285, 443, 454, 501
H. Locate and interpret mathematical information accurately, and communicate ideas, processes and solutions in a complete and easily understood manner.	<b>SE/TE:</b> 24-25, 78-79, 116-117, 240-241, 280-281, 333-334, 385-386, 455-456, 501-502, 545-546, 587-588

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Grade 8	
Number, Number Sense and Operations Standard	
Number and Number Systems Meaning of Operations Computation and Estimation	
1. Use scientific notation to express large numbers and small numbers between 0 and 1.	<b>SE/TE:</b> 92-96
	<b>TR:</b> Section 2-8 Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
2. Recognize that natural numbers, whole numbers, integers, rational numbers and irrational numbers are subsets of the real number system.	<b>SE/TE:</b> 107-108
3. Apply order of operations to simplify expressions and perform computations involving integer exponents and radicals.	<b>SE/TE:</b> 86-89
	<b>TR:</b> Section 2-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
4. Explain and use the inverse and identity properties and use inverse relationships (addition/subtraction, multiplication/division, squaring/square roots) in problem solving situations.	<b>SE/TE:</b> 16-18, 20-23, 34-35, 73-75, 106-109,
	<b>TR:</b> Section 1-3, 1-4, 1-6, 2-5, 3-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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5. Determine when an estimate is sufficient and when an exact answer is needed in problem situations, and evaluate estimates in relation to actual answers; e.g., very close, less than, greater than.	<b>SE/TE:</b> 80, 116-117, 214-217, 228
6. Estimate, compute and solve problems involving rational numbers, including ratio, proportion and percent, and judge the reasonableness of solutions.	<b>SE/TE:</b> 160-163, 172-178, 181-184, 193-195, 214-222
	<b>TR:</b> Section 4-1,4-3, 4-4, 4-6, 5-2 : Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Graph paper
7. Find the square root of perfect squares, and approximate the square root of non-perfect squares as consecutive integers between which the root lies; e.g., is between 11 and 12.	<b>SE/TE:</b> 106-110
	<b>TR:</b> Section 3-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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8. Add, subtract, multiply, divide and compare numbers written in scientific notation.	<b>SE/TE:</b> 94, 572, 582
Measurement Standard	
Measurement Units Use Measurement Techniques and Tools	
1. Compare and order the relative size of common U.S. customary units and metric units; e.g., mile and kilometer, gallon and liter, pound and kilogram.	<b>SE/TE:</b> 168-169
2. Use proportional relationships and formulas to convert units from one measurement system to another; e.g., degrees Fahrenheit to degrees Celsius.	<b>SE/TE:</b> 80, 168-169

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3. Use appropriate levels of precision when calculating with measurements.	<b>SE/TE:</b> 402
4. Derive formulas for surface area and volume and justify them using geometric models and common materials. For example, find:	
a. the surface area of a cylinder as a function of its height and radius;	<b>SE/TE:</b> 367, 369-370
	<b>TR:</b> Section 8-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
b. that the volume of a pyramid (or cone) is one-third of the volume of a prism (or cylinder) with the same base area and height.	<b>SE/TE:</b> 387-391
	<b>TR:</b> Section 8-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
5. Determine surface area for pyramids by analyzing their parts.	<b>SE/TE:</b> 373-378
	<b>TR:</b> Section 8-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
6. Solve and determine the reasonableness of the results for problems involving rates and derived measurements, such as velocity and density, using formulas, models and graphs.	<b>SE/TE:</b> 161

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7. Apply proportional reasoning to solve problems involving indirect measurements or rates.	<b>SE/TE:</b> 160-164
	<b>TR:</b> Section 4-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
8. Find the sum of the interior and exterior angles of regular convex polygons with and without measuring the angles with a protractor.	<b>SE/TE:</b> 323-327
	<b>TR:</b> Section 7-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
9. Demonstrate understanding of the concepts of perimeter, circumference and area by using established formulas for triangles, quadrilaterals, and circles to determine the surface area and volume of prisms, pyramids, cylinders, spheres and cones. (Note: Only volume should be calculated for spheres and cones.)	<b>SE/TE:</b> 81-85, 328-332, 336-339
	<b>TR:</b> Section 2-6, 7-6, 7-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
10. Use conventional formulas to find the surface area and volume of prisms, pyramids and cylinders and the volume of spheres and cones to a specified level of precision.	<b>SE/TE:</b> 368-385, 388-391, 393-396

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	<b>TR:</b> Section 8-4, 8-5, 8-6, 8-7, 8-8: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
Geometry and Spatial Sense Standard	
Characteristics and Properties Spatial Relationships Transformations and Symmetry Visualization and Geometric Models	
1. Make and test conjectures about characteristics and properties (e.g., sides, angles, symmetry) of two-dimensional figures and three-dimensional objects.	<b>SE/TE:</b> 140, 142, 318-322, 324-327
	<b>TR:</b> Section 7-4, 7-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
2. Recognize the angles formed and the relationship between the angles when two lines intersect and when parallel lines are cut by a transversal.	<b>SE/TE:</b> 307-310
	<b>TR:</b> Section 7-2: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
3. Use proportions in several forms to solve problems involving similar figures (part-to-part, part-to-whole, corresponding sides between figures).	<b>SE/TE:</b> 181-185, 197-200
	<b>TR:</b> Section 4-4, 4-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.



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	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
4. Represent and analyze shapes using coordinate geometry; e.g., given three vertices and the type of quadrilateral, find the coordinates of the fourth vertex.	<b>SE/TE:</b> 125-126, 136-139, 141-144
	<b>TR:</b> Section 3-6, 3-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Graph paper
5. Draw the results of translations, reflections, rotations and dilations of objects in the coordinate plane, and determine properties that remain fixed; e.g., lengths of sides remain the same under translations.	<b>SE/TE:</b> 136-139, 141-144, 186, 188-191
	<b>TR:</b> Section 3-6, 3-7, 4-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Graph paper
6. Draw nets for a variety of prisms, pyramids, cylinders and cones.	<b>SE/TE:</b> 364-366, 374, 387
<b>Patterns, Functions and Algebra Standard</b>	
<b>Use Patterns, Relations and Functions Use Algebraic Representations Analyze Change</b>	
1. Relate the various representations of a relationship; i.e., relate a table to graph, description and symbolic form.	<b>SE/TE:</b> 550
2. Generalize patterns and sequences by describing how to find the nth term.	<b>SE/TE:</b> 130, 323, 514-517

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	<b>TR:</b> Section 11-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
3. Identify functions as linear or nonlinear based on information given in a table, graph or equation.	<b>SE/TE:</b> 546, 548
4. Extend the uses of variables to include covariants where y depends on x.	<b>SE/TE:</b> 131-134, 533-538
5. Use physical models to add and subtract monomials and polynomials, and to multiply a polynomial by a monomial.	<b>SE/TE:</b> 561-569
	<b>TR:</b> Section 12-1, 12-2: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Algebra Tiles
6. Describe the relationship between the graph of a line and its equation, including being able to explain the meaning of slope as a constant rate of change and y-intercept in real-world problems.	<b>SE/TE:</b> 527-531, 534-538
	<b>TR:</b> Section 11-4, 11-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Graph paper
7. Use symbolic algebra (equations and inequalities), graphs and tables to represent situations and solve problems.	<b>SE/TE:</b> T52, T55, 6, 7, 35, 40, 226, 241, 263, 278-280, 415, 454, 568, 587, 548
8. Write, simplify and evaluate algebraic expressions (including formulas) to generalize situations and solve problems.	<b>SE/TE:</b> 4-8, 37, 116-117, 265-269, 281, 286, 329, 334, 336-339, 561-569, 576-579, 581-586

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	<b>TR:</b> Section 1-1, 6-2, 7-6, 7-7, 12-1, 12-2, 12-4, 12-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> 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
9. Solve linear equations and inequalities graphically, symbolically and using technology.	<b>SE/TE:</b> 32-36, 38-42, 271-278, 282-285, 288-292, 587-588
	<b>TR:</b> Section 1-6, 1-7, 6-3, 6-4, 6-5, 6-6: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Algebra Tiles
10. Solve 2 by 2 systems of linear equations graphically and by simple substitution.	<b>SE/TE:</b> 130-134, 533-538
	<b>TR:</b> Section 3-5, 11-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> 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
11. Interpret the meaning of the solution of a 2 by 2 system of equations; i.e., point, line, no solution.	<b>SE/TE:</b> 130-134, 533-538
	<b>TR:</b> Section 3-5, 11-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> 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

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12. Solve simple quadratic equations graphically; e.g., $y = x^2 - 16$ .	<b>SE/TE:</b> 546-549
	<b>TR:</b> Section 11-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Graph paper
13. Compute and interpret slope, midpoint and distance given a set of ordered pairs.	<b>SE/TE:</b> 125-126, 128, 527-532
	<b>TR:</b> Section 3-4, 11-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> 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
14. Differentiate and explain types of changes in mathematical relationships, such as linear vs. nonlinear, continuous vs. noncontinuous, direct variation vs. inverse variation.	<b>SE/TE:</b> 527, 531, 534-538, 540-549
	<b>TR:</b> Section 11-5, : Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Graph paper
15. Describe and compare how changes in an equation affects the related graphs; e.g., for a linear equation changing the coefficient of x affects the slope and changing the constant affects the intercepts.	<b>SE/TE:</b> 530, 532, 533
16. Use graphing calculators or computers to analyze change; e.g., interest compounded over time as a nonlinear growth pattern.	<b>SE/TE:</b> 397, 423, 427, 527

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Data Analysis and Probability Standard	
Data Collection Statistical Methods Probability	
1. Use, create and interpret scatterplots and other types of graphs as appropriate.	<b>SE/TE:</b> 418-423, 428-448, 450-453
	<b>TR:</b> Section 9-2, 9-4, 9-8: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Compass
2. Evaluate different graphical representations of the same data to determine which is the most appropriate representation for an identified purpose; e.g., line graph for change over time, circle graph for part-to-whole comparison, scatterplot for relationship between two variants.	<b>SE/TE:</b> 428-431, 456-459
	<b>TR:</b> Section 9-4, 9-9: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
3. Differentiate between discrete and continuous data and appropriate ways to represent each.	<b>SE/TE:</b> 534-538
	<b>TR:</b> Section 11-5, : Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
4. Compare two sets of data using measures of center (mean, mode, median) and measures of spread (range, quartiles, interquartile range, percentiles).	<b>SE/TE:</b> 412-417

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	<b>TR:</b> Section 9-1, : Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
5. Explain the mean's sensitivity to extremes and its use in comparison with the median and mode.	<b>SE/TE:</b> 413
6. Make conjectures about possible relationship in a scatterplot and approximate line of best fit.	<b>SE/TE:</b> 443-448
	<b>TR:</b> Section 9-7 : Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Grid paper
7. Identify different ways of selecting samples, such as survey response, random sample, representative sample and convenience sample.	<b>SE/TE:</b> 480-483
	<b>TR:</b> Section 10-3 : Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
8. Describe how the relative size of a sample compared to the target population affects the validity of predictions.	<b>SE/TE:</b> 480-483
	<b>TR:</b> Section 10-3 : Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.

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9. Construct convincing arguments based on analysis of data and interpretation of graphs.	<b>SE/TE:</b> 414-415, 417, 421, 427, 443-448, 452-453
10. Calculate the number of possible outcomes for a situation, recognizing and accounting for when items may occur more than once or when order is important.	<b>SE/TE:</b> 491-499, 501-501
11. Demonstrate an understanding that the probability of either of two disjoint events occurring can be found by adding the probabilities for each and that the probability of one independent event following another can be found by multiplying the probabilities.	<b>SE/TE:</b> 486-489
	<b>TR:</b> Section 10-4 : Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
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