



Geometry

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STANDARDS	PAGE REFERENCES
<p>Algebraic Reasoning: Patterns And Functions – Patterns and functional relationships can be represented and analyzed using a variety of strategies, tools and technologies.</p> <p>How do patterns and functions help us describe data and physical phenomena and solve a variety of problems?</p>	
<p>1.1 Understand and describe patterns and functional relationships.</p>	
<p>a. Describe relationships and make generalizations about patterns and functions.</p>	<p>Student Edition: 78-82, 90 #56-#61 <i>Geometry Lab</i> 320 <i>Graphing Calculator Lab</i> 387 Teacher Wraparound Edition AE 79, 80; GL 320; PA 79; T 387; TNT 79</p>
<p>1.2 Represent and analyze quantitative relationships in a variety of ways.</p>	
<p>a. Represent and analyze linear and nonlinear functions and relations symbolically and with tables and graphs.</p>	<p>Student Edition: 165-170, 176 #7, 179 #39-#42, 193 #19-#23, 195 #12-#15 <i>Geometry Lab</i> 171 <i>Graphing Calculator Lab</i> 180 Teacher Wraparound Edition A 170; AE 166, 167; T 180</p>

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<p>1.3 Use operations, properties and algebraic symbols to determine equivalence and solve problems.</p>	
<p>a. Manipulate equations, inequalities and functions to solve problems.</p>	<p>Student Edition: 156-163, 165-170, 175 ex 4, 184 ex 3, 187 #42-#43, 192 #14 <i>Geometry Lab</i> 171 <i>Graphing Calculator Lab</i> 180 Teacher Wraparound Edition A 163; AE 157, 158, 159, 166, 167, 175; GL 158; PA 163, 187; T 171</p>
<p>Numerical and Proportional Reasoning – Quantitative relationships can be expressed numerically in multiple ways in order to make connections and simplify calculations using a variety of strategies, tools and technologies. How are quantitative relationships represented by numbers?</p>	
<p>2.1 Understand that a variety of numerical representations can be used to describe quantitative relationships.</p>	
<p>a. Extend the understanding of number to include integers, rational numbers and real numbers.</p>	<p>Student Edition: 778-779, 790-791, 798-799, 843 #1-#2, 846 #1-#4, 850 #1-#4, 855 #1-#2</p>
<p>b. Interpret and represent large sets of numbers with the aid of technologies.</p>	<p>Student Edition: 85, 86 ex 3, 88 #25-#28</p>
<p>2.2 Use numbers and their properties to compute flexibly and fluently, and to reasonably estimate measures and quantities.</p>	
<p>a. Develop strategies for computation and estimation using properties of number systems to solve problems.</p>	<p>Student Edition: 5 #6-#9, 778-779, 790-791, 798-799, 843 #1-#2, 846 #1-#4, 850 #1-#4, 855 #1-#2</p>
<p>b. Solve proportional reasoning problems.</p>	<p>Student Edition: 380 ex 1, 382 ex 4, 383 #8-#11, 384 #30-#34, 385 #35-#36, 389 ex 2, 391 ex 5, 392 #3, 393 #20-#21, 394 #24-#25, 400 ex 3, 401 #12-#13, 408 ex 4, 410 #10 Teacher Wraparound Edition AE 381, 382, 389, 390, 391, 408</p>

STANDARDS	PAGE REFERENCES
<p>Geometry and Measurement – Shapes and structures can be analyzed, visualized, measured and transformed using a variety of strategies, tools and technologies.</p> <p>How do geometric relationships and measurements help us to solve problems and make sense of our world?</p>	
<p>3.1 Use properties and characteristics of two- and three-dimensional shapes and geometric theorems to describe relationships, communicate ideas and solve problems.</p>	
<p>a. Investigate relationships among plane and solid geometric figures using geometric models, constructions and tools.</p>	<p>Student Edition: 682 ex 3, 683 #14-#19, 684 #33-#35, 691 #41-#43 <i>Construction</i> 16, 25, 33, 35, 182, 186, 266, 268, 409, 413 <i>Geometry Lab</i> 48, 681 Teacher Wraparound Edition A 48; AE 682; GL 681</p>
<p>b. Develop and evaluate mathematical arguments using reasoning and proof.</p>	<p>Student Edition: 79 ex 3, 80 #5-#6, 81 #25-#30, 82 #38, 92 ex 3, 94 #6-#8, 95 #27-#30, 96 #37-#42, 98 #1-#4, 99-104, 105-109, 110 #1-#3, 111-117, 134 #17-#24, 135 #25-#28, 137 #1-#3, 138 #1 Teacher Wraparound Edition AE 100, 101, 112</p>
<p>3.2 Use spatial reasoning, location and geometric relationships to solve problems.</p>	
<p>a. Verify geometric relationships using algebra, coordinate geometry, and transformations.</p>	<p>Student Edition: 111-117, 251-255, 260 #30-#32, 497-503, 504-509, 510-517, 525-532 <i>Geometry Lab</i> 496 Teacher Wraparound Edition A 117, 255, 503; AE 112, 113, 252, 253, 498, 499, 505, 511; PA 109</p>
<p>3.3 Develop and apply units, systems, formulas and appropriate tools to estimate and measure.</p>	
<p>a. Solve a variety of problems involving 1-, 2-, and 3-dimensional measurements using geometric relationships and trigonometric ratios.</p>	<p>Student Edition: 456-462, 463 #10-#13, 464-470, 471-477, 479-485 <i>Geometry Software Lab</i> 478 <i>Graphing Calculator Lab</i> 455 Teacher Wraparound Edition A 455, 470, 485; AE 457, 458, 459, 473, 474, 480, 481; PA 459, 465, 485</p>

STANDARDS	PAGE REFERENCES
<p>Working with Data: Probability and Statistics – Data can be analyzed to make informed decisions using a variety of strategies, tools and technologies.</p> <p>How can collecting, organizing and displaying data help us analyze information and make reasonable predictions and informed decisions?</p>	
<p>4.1 Collect, organize and display data using appropriate statistical and graphical methods.</p>	
<p>a. Create the appropriate visual or graphical representation of real data.</p>	<p>Student Edition: 567 #29-#31, 851 #18, 856 #8</p>
<p>4.2 Analyze data sets to form hypotheses and make predictions.</p>	
<p>a. Analyze real-world problems using statistical techniques.</p>	<p>Student Edition: 565 ex 3, 567 #9, 670 #19-#22, 843 #9, 847 #17-#18, 851 #19-#20, 856 #8</p>
<p>4.3 Understand and apply basic concepts of probability.</p>	
<p>a. Understand and apply the principles of probability in a variety of situations.</p>	<p>Student Edition: 587 #19, 665-671, 674 #23-#25, 675 #11-#13, 847 #19, 856 #9</p>