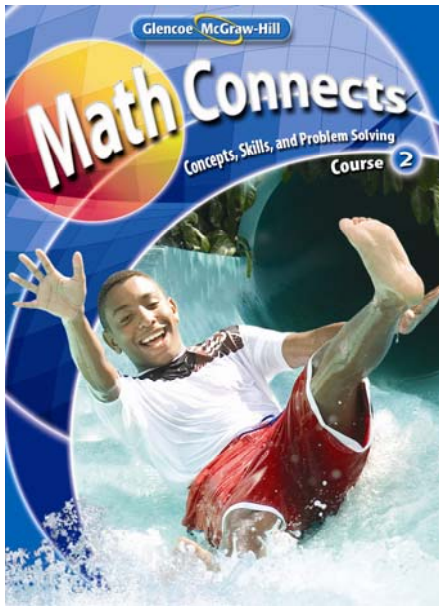




Glencoe

Mathematics Standards
Grades 6-8

Nevada



Math Connects

Concepts, Skills, and Problem Solving

Course 2

© 2009

STANDARDS

PAGE REFERENCES

Process Standard A: Students will develop their ability to solve problems by engaging in developmentally appropriate opportunities where there is a need to use various approaches to investigate and understand mathematical concepts in order to:

- **Formulate their own problems**
- **Find solutions to problems from everyday situations**
- **Develop and apply strategies to solve a variety of problems**
- **Integrate mathematical reasoning, communication and connections**

- Generalize solutions and apply previous knowledge to new problem solving situations

Student Edition:

107, 114, 136, 181, 202, 265, 480-483, 578, LA18-LA20

Measurement Lab 577

Teacher Wraparound Edition:

A 367; T 103, 107, 114, 136, 181, 202, 265, 480, 578

- Determine an efficient strategy, verify, interpret, and evaluate the results with respect to the original problem

Student Edition:

25-29, 42-43, 112-113, 148-149, 190-191, 248-249, 366-367, 484-485, 530-531, 594-595, 646-647

Teacher Wraparound Edition:

A 29; AE 42, 112, 148, 190, 248, 646; F 42; T 25-29; TNT 248, 484

STANDARDS	PAGE REFERENCES
<ul style="list-style-type: none"> Apply problem solving strategies until a solution is found or it is clear that no solution exists 	<p>Student Edition: 25-29, 49-52, 148-149, 151-155, 248-249, 594-595, 639 #49, 646-647, LA18-LA20 <i>Graphing Calculator Lab</i> 68-69</p> <p>Teacher Wraparound Edition: AE 152, LA19; FMC 152</p>
<ul style="list-style-type: none"> Interpret and solve a variety of mathematical problems by paraphrasing 	<p>Student Edition: 53-56, 293-297, 480-483, 484-485, 486-490, 533-538, 578-582, 608-612, 646-647 <i>Geometry Lab</i> 607 <i>Measurement Lab</i> 577 <i>Probability Lab</i> 491</p> <p>Teacher Wraparound Edition: AE 294; DI 590; EC 577; T 486, 491, 577, 578; TNT 486, 533</p>
<ul style="list-style-type: none"> Identify necessary and extraneous information 	<p>Student Edition: 25-29, 190-191, 248-249, 366-367, 402-408, 410-414, 438-443, 444-449, 453, 484-485, 530-531 <i>Mid-Chapter Quiz</i> 423</p> <p>Teacher Wraparound Edition: AA 447, 449, 485; AE 411, 439, 446; PA 437</p>
<ul style="list-style-type: none"> Check the reasonableness of a solution 	<p>Student Edition: 25-29, 42-43, 148-149, 240 #47, 248-249, 308 #39, 366-367, 374 #36, 469 #26, 484-485, 530-531, 587 #37, 639 #49, LA8-LA9</p> <p>Teacher Wraparound Edition: AA 484, 485; AE 248, 366; DI 366; TNT 248</p>
<ul style="list-style-type: none"> Apply technology as a tool in problem solving situations 	<p>Student Edition: 35 <i>Graphing Calculator Lab</i> 68-69, 168, 409, 624 <i>Spreadsheet Lab</i> 327, 383, 422, 432-433 <i>Study Tip</i> 585</p> <p>Teacher Wraparound Edition: A 68, 383, 409, 433; AA 68, 69, 624; DI 639; F 327; T 68, 168, 327; TNT 168, 422</p>

STANDARDS	PAGE REFERENCES
<p>Process Standard B: Students will develop their ability to communicate mathematically by solving problems where there is a need to obtain information from the real world through reading, listening, and observing in order to:</p>	
<ul style="list-style-type: none"> • Translate information into mathematical language and symbols • Process information mathematically • Present results in written, oral, and visual formats • Discuss and exchange ideas about mathematics as a part of learning • Read a variety of fiction and nonfiction texts to learn about mathematics • Use mathematical notation to communicate and explain problems 	
<ul style="list-style-type: none"> • Use formulas, algorithms, inquiry, and other techniques to solve mathematical problems 	<p>Student Edition: 144, 379-382, 572-576, 589-593 <i>Geometry Lab</i> 607, 613-618, 640a, 640-645, 686, 697, 698, 748-749</p> <p>Teacher Wraparound Edition: A 146; AA 576; AE 379, 380, 573, 590; DI 590, 615; T 640; TNT 144</p>
<ul style="list-style-type: none"> • Evaluate written and oral presentations in mathematics 	<p>Student Edition: 148 #3, 409, 469 #26 <i>Measurement Lab</i> 162</p> <p>Teacher Wraparound Edition: DI 155, 191, 366, 531; MLA 177; ODI 646a, 649a; RWM 22E, 78E, 228E; T 162</p>
<ul style="list-style-type: none"> • Identify and translate key words and phrases that imply mathematical operations 	<p>Student Edition: 80-83, 156-161, 287-292, 293-297, 350-354, 375-378, 402-408, 460-464 <i>Graphing Calculator Lab</i> 409</p> <p>Teacher Wraparound Edition: AE 81, 157, 293, 351, 376, 403, 405, 461; FMC 404; T 44</p>
<ul style="list-style-type: none"> • Model and explain mathematical relationships using oral, written, graphic, and algebraic methods 	<p>Student Edition: 67 #28, 112-113, 235 #47-#48, 308 #39, 348 #56, 374 #36, 530-531, 646 #2 <i>Graphing Calculator Lab</i> 68-69, 168 <i>Measurement Lab</i> 162</p> <p>Teacher Wraparound Edition: A 113, 162, 316; AA 48; DI 205, 531, 590, 615</p>

STANDARDS	PAGE REFERENCES
<ul style="list-style-type: none"> Use everyday language, both orally and in writing, to communicate strategies and solutions to mathematical problems 	<p>Student Edition: 25-29, 111 #49-#53, 133 #40, 235 #48, 240 #48, 248-249, 484-485, 646 #2 <i>Graphing Calculator Lab</i> 68-69</p> <p>Teacher Wraparound Edition: AA 111, 407, 484, 485; DI 366, 590, 615</p>
<p>Process Standard C: Students will develop their ability to reason mathematically by solving problems where there is a need to investigate mathematical ideas and construct their own learning in all content areas in order to:</p>	
<ul style="list-style-type: none"> Reinforce and extend their logical reasoning abilities Reflect on, clarify, and justify their thinking Ask questions to extend their thinking Use patterns and relationships to analyze mathematical situations Determine relevant, irrelevant, and/or sufficient information to solve mathematical problems 	
<ul style="list-style-type: none"> Recognize and apply deductive and inductive reasoning 	<p>Student Edition: 42-43, 148-149, 248-249, 366-367, 525-529, 530-531, 537 #35, 538 #49, 539 #10, 565, 694</p> <p>Teacher Wraparound Edition: A 249, 529; AA 148, 537; AE 42, 248, 366, 526; DI 531; T 42</p>
<ul style="list-style-type: none"> Review and refine the assumptions and steps used to derive conclusions in mathematical arguments 	<p>Student Edition: 25-29, 42-43, 47 #44, 148-149, 151-155, 248-249, 366-367, 484-485, 530-531, 639 #49 <i>Graphing Calculator Lab</i> 68-69</p> <p>Teacher Wraparound Edition: A 47, 249; AA 484, 485; DI 366; FMC 152; T 42; TNT 152</p>
<ul style="list-style-type: none"> Justify answers and the steps taken to solve problems with and without manipulatives and physical models 	<p>Student Edition: 57-61, 107-111, 114-118, 142-146, 151-155, 211-214, 265-270, 369-374, 646-647 <i>Geometry Lab</i> 607</p> <p>Teacher Wraparound Edition: A 62, 94, 102, 135, 251; T 57, 94</p>

STANDARDS	PAGE REFERENCES
<p>Process Standard D: Students will develop the ability to make mathematical connections by solving problems where there is a need to view mathematics as an integrated whole in order to:</p>	
<ul style="list-style-type: none"> • Link new concepts to prior knowledge • Identify relationships between content strands • Integrate mathematics with other disciplines • Allow the flexibility to approach problems in a variety of ways within and beyond the field of mathematics 	
<ul style="list-style-type: none"> • Use mathematical ideas from one area of mathematics to explain an idea from another area of mathematics 	<p>Student Edition: 156-161, 287-292, 298-303, 369-374, 375-378, 379-382, 594-595, 640-641, 646-647 <i>Math Lab</i> 316 <i>Spreadsheet Lab</i> 383</p> <p>Teacher Wraparound Edition: A 43, 374; AE 157, 288; FMC 370; T 298, 369, 640</p>
<ul style="list-style-type: none"> • Use manipulatives and physical models to explain the relationships between concepts and procedures 	<p>Student Edition: 34, 57, 107, 114, 142, 151, 211, 265, 369 <i>Algebra Lab</i> 62, 93-94, 101-102, 134-135 <i>Math Lab</i> 250-251</p> <p>Teacher Wraparound Edition: A 62, 94, 102; DI 117; T 57, 62, 93, 101, 134, 211</p>
<ul style="list-style-type: none"> • Use the connections among mathematical topics to develop multiple approaches to problems 	<p>Student Edition: 53-56, 293-297, 480-483, 484-485, 486-490, 533-538, 578-582, 608-612, 646-647 <i>Geometry Lab</i> 607 <i>Measurement Lab</i> 577 <i>Probability Lab</i> 491</p> <p>Teacher Wraparound Edition: AE 294; DI 590; EC 577; T 486, 491, 577, 578; TNT 486, 533</p>
<ul style="list-style-type: none"> • Apply mathematical thinking and modeling to solve problems that arise in other disciplines, such as rhythm in music and motion in science 	<p>Student Edition: 4-5, 10-11, 14-15, 46 #31, 64, <i>Real-World Example</i> 104, 113 #6, #13, 137, 298-303, 304-309, 320-326 <i>Spreadsheet Lab</i> 327 <i>Vocabulary Link</i> 397, 407 #20-#22, 692</p> <p>Teacher Wraparound Edition: A 15; AA 325; AE 321; EC 327; T 10</p>

STANDARDS	PAGE REFERENCES
<ul style="list-style-type: none"> Identify, explain, and apply mathematics in everyday life 	<p>Student Edition: <i>Geometry Lab</i> 607 #4 <i>Real-World Example</i> 65 #3, 67 #27, 139 #21, 190-191, 235 #47, 283, 318-319, 331 #40, 366-367, 375-378, 379-382, 480-483 <i>Spreadsheet Lab</i> 383</p> <p>Teacher Wraparound Edition: A 83; AA 67, 190, 308; AE 190, 305, 366, 380, 480; DI 87; T 318; TNT 381</p>
Grade 7	
1.0 Numbers, Number Sense, and Computation	
<p>Content Standard 1.0 Students will accurately calculate and use estimation techniques, number relationships, operation rules, and algorithms; they will determine the reasonableness of answers and the accuracy of solutions to solve problems, communicate, reason, and make connections within and beyond the field of mathematics.</p> <p>At a minimum, students will maintain previous skills and attain the following:</p>	
<p>1.7.1 Identify and use place value in mathematical and practical situations.</p>	<p>Student Edition: 205 #54-#57, 206-210, 224 #51-#59, LA2-LA5, 669 #4, 678, 720 #3, 736, 737, 738 <i>Practice Test</i> 225</p> <p>Teacher Wraparound Edition: AE LA3; FMC 207; T LA2; TNT 208, LA4</p>
<p>Write, identify, and use powers of 10 from 10^{-3} through 10^6.</p>	<p>Student Edition: 205 #54-#57, 206-210, 214 #37-#40, LA2-LA5, 668, 669, 678, 720 #3, 737</p> <p>Teacher Wraparound Edition: AA LA5; AE LA3; FMC 207; T LA2; TNT 208, LA4</p>
<p>1.7.2 Translate among fractions, decimals, and percents, including fractional percents.</p>	<p>Student Edition: 194-195, 196-200, 202-205, 206-210, 215-219, 677, 678, 707 #7-#16 <i>Mid-Chapter Quiz</i> 201 <i>Practice Test</i> 225 <i>Study Guide and Review</i> 223-224</p> <p>Teacher Wraparound Edition: AE 197, 198, 203; T 196; TNT 208, 209</p>
<p>1.7.3 Compare and order a combination of rational numbers, including fractions, decimals, percents, and integers in mathematical and practical situations.</p>	<p>Student Edition: 215-220, 224, 235 #51-#54, 679, 707 #18 <i>Practice Test</i> 225</p> <p>Teacher Wraparound Edition: A 220; AA 218, 219, 220; AE 216, 217; T 215</p>

STANDARDS	PAGE REFERENCES
<p>1.7.5 Identify absolute values of integers.</p>	<p>Student Edition: 80-83, 87 #37-#38, 92 #54-#56, 120, 671, 705 <i>Mid-Chapter Quiz</i> 100 <i>Practice Test</i> 123</p> <p>Teacher Wraparound Edition: AA 82; AE 81; T 80</p>
<p>1.7.6 Generate a reasonable estimate for a computation using a variety of methods.</p>	<p>Student Edition: 230-235, 355-360, 365 #39, 366-367, 385, 386, 636-639, 679, 684, 685, 686, 701, 708 #1-#2, 710 <i>Mid-Chapter Quiz</i> 368 <i>Practice Test</i> 389</p> <p>Teacher Wraparound Edition: AE 355, 357; FMC 356; T 230; TNT 231, 232, 234, 358</p>
<p>Select and round to the appropriate significant digit.</p>	<p>Student Edition: 365 #40-#42, 369-374, 375-378, 379-382, 385, 386, 685, 686, 687, 710 #4, #8, #9 <i>Practice Test</i> 389</p> <p>Teacher Wraparound Edition: AE 370, 371</p>
<p>1.7.7 Calculate with integers and other rational numbers to solve mathematical and practical situations.</p>	<p>Student Edition: 80-83, 95-99, 103-106, 107-111, 112-113, 114-118, 124-125, 194-195, 196-200, 202-205, 236-241, 252-257 <i>Practice Test</i> 123, 225</p> <p>Teacher Wraparound Edition: A 195; AE 81, 97, 104, 109, 253; DI 117; T 112, 196; TNT 107</p>
<p>Use order of operations to evaluate expressions and solve one-step equations (containing rational numbers).</p>	<p>Student Edition: 38-41, 42-43, 44-47, 52 #37-#39, 53-56, 72-73, 76-77, LA6-LA7, 669, 672 <i>Mid-Chapter Quiz</i> 48 <i>Study Guide and Review</i> 72-73 <i>Test Practice</i> 76-77</p> <p>Teacher Wraparound Edition: A 43; AA 38; AE 39, 45; FMC 39; T 53; TNT 40</p>

STANDARDS	PAGE REFERENCES
<p>1.7.8 Identify and apply the distributive, commutative, and associative properties of rational numbers to solve problems.</p>	<p>Student Edition: 54-56, 61 #39-#40, 73, 156-161, LA6-LA9, 670, 704 #9-#10; 748 <i>Practice Test</i> 75</p> <p>Teacher Wraparound Edition: A LA9; AA 55, 56, 73; AE 53, 54, 157, LA8; FMC 54, 108; T 53, 107; TNT 53</p>
<p>2.0 Patterns, Functions, and Algebra</p>	
<p>Content Standard 2.0 Students will use various algebraic methods to analyze, illustrate, extend, and create numerous representations (words, numbers, tables, and graphs) of patterns, functions, and algebraic relations as modeled in practical situations to solve problems, communicate, reason, and make connections within and beyond the field of mathematics.</p> <p>At a minimum, students will maintain previous skills and attain the following:</p>	
<p>2.7.1 Use and create tables, charts, and graphs to extend a pattern in order to describe a linear rule, including integer values.</p>	<p>Student Edition: 63-67, 74, 163-167, 293-297, 302, 303, 317 #8, #13, 424-425, 426-431, 676 <i>Graphing Calculator Lab</i> 68-69, 168 <i>Measurement Lab</i> 162</p> <p>Teacher Wraparound Edition: A 296; AA 63, 65, 74, 425; AE 164, 165, 294, 424; T 426</p>
<p>2.7.2 Evaluate formulas and algebraic expressions for given integer values.</p>	<p>Student Edition: 44-47, 49-52, 57-61, 63-67, 144-146, 156-161, 578-582, 589-593, 669, 671 <i>Mid-Chapter Quiz</i> 48 <i>Study Guide and Review</i> 73, 74</p> <p>Teacher Wraparound Edition: AA 65; AE 45, 50, 59, 64, 157, 579, 590; FMC 157; T 44</p>
<p>Solve and graphically represent equations and inequalities in one variable with integer solutions.</p>	<p>Student Edition: 163-167, 172, 740-741 <i>Graphing Calculator Lab</i> 168 <i>Practice Test</i> 173 #21-#25 <i>Spreadsheet Lab</i> 432-433</p> <p>Teacher Wraparound Edition: A 168, 433; AA 167, 172, 173; AE 164, 165; FMC 163; T 432</p>

STANDARDS	PAGE REFERENCES
<p>2.7.3 Simplify algebraic expressions by combining like terms.</p>	<p>Student Edition: 55 #29-#36, 156-161, 675 #1-#11, LA6-LA9, 742 Teacher Wraparound Edition: A LA9; AA LA9; AE 156, LA7, LA8; DI 158, LA8; FMC LA7; T LA6</p>
<p>2.7.4 Generate and graph a set of ordered pairs to represent a linear equation.</p>	<p>Student Edition: 88-92, 163-167, 172, 175 #10, 184 #50, 189 #43-#45, 676, 706 #12-#16 <i>Graphing Calculator Lab</i> 68-69, 168 <i>Practice Test</i> 173 <i>Spreadsheet Lab</i> 432-433 Teacher Wraparound Edition: AA 173, 175, 184, 189; AE 164, 165; FMC 89</p>
<p>2.7.5 Identify linear equations and inequalities.</p>	<p>Student Edition: 63-67, 69, 74, 75 #24-#25, 163-167, 172, 676, 724 #8, 740-741 <i>Graphing Calculator Lab</i> 68-69, 168 <i>Practice Test</i> 173 Teacher Wraparound Edition: A 167; AA 167, 172; AE 164, 165; FMC 164</p>
<p>Model and solve equations using concrete and visual representations.</p>	<p>Student Edition: 49-52, 53-56, 63-67, 136, 142, 151, 156-161, 675 <i>Algebra Lab</i> 134-135 Teacher Wraparound Edition: A 135; AA 134, 135; AE 156, 157; T 134, 136, 142</p>
<p>3.0 Measurement</p>	
<p>Content Standard 3.0 Students will use appropriate tools and techniques of measurement to determine, estimate, record, and verify direct and indirect measurements to solve problems, communicate, reason, and make connections within and beyond the field of mathematics. At a minimum, students will maintain previous skills and attain the following:</p>	
<p>3.7.1 Estimate and compare corresponding units of measure for area and volume/capacity between customary and metric systems.</p>	<p>Student Edition: 156-161, 298-303, 304-309, 572-576, 613-618, 747, 748-749 Teacher Wraparound Edition: AA 302; AE 157, 299, 300, 305, 573, 615; FMC 299, 305; TNT 159</p>
<p>3.7.2 Given a measurement, identify the greatest possible error.</p>	<p>Absolute error and relative error are defined on the following page. Student Edition: 750</p>

STANDARDS	PAGE REFERENCES
<p>3.7.3 Select, model, and apply formulas to find the volume and surface area of solid figures.</p>	<p>Student Edition: 613-618, 619-623, 630, 656-659, 662, 701, 703, 729 #15, 748-749 <i>Measurement Lab</i> 654-655 <i>Practice Test</i> 631, 663 Teacher Wraparound Edition: A 655, 659; AA 618; AE 614, 615, 657; DI 620; FMC 614; TNT 614</p>
<p>3.7.4 Calculate simple interest in monetary problems.</p>	<p>Student Edition: 379-382, 388, 401 #37-#38, 687, 710 #12-#15 <i>Practice Test</i> 389 #22-#25 <i>Spreadsheet Lab</i> 383 Teacher Wraparound Edition: A 382, 383; AA 383; AE 379, 380; FMC 380; TNT 380, 381, 382</p>
<p>3.7.5 Write and apply proportions to solve mathematical and practical problems involving measurement and monetary conversions.</p>	<p>Student Edition: 298-303, 304-309, 310-315, 320-326, 332 #48-#49, 335, 682, 683, 684, 709, 728 #1, 739, 747 <i>Math Lab</i> 316 <i>Mid-Chapter Quiz</i> 317 <i>Practice Test</i> 337 <i>Spreadsheet Lab</i> 327 Teacher Wraparound Edition: AA 313, 314; AE 299, 300, 306, 311, 322; PA 302</p>
<p>3.7.6 Use elapsed time to solve practical problems.</p>	<p>Student Edition: 149 #6, 194 #27, 205 #50, 245 #34</p>
<p>4.0 Spatial Relationships, Geometry, and Logic</p>	
<p>Content Standard 4.0 Students will identify, represent, verify, and apply spatial relationships and geometric properties to solve problems, communicate, and make connections within and beyond the field of mathematics. At a minimum, students will maintain previous skills and attain the following:</p>	
<p>4.7.1 Identify, classify, compare, and draw regular and irregular polygons.</p>	<p>Student Edition: 524-529, 530-531, 533-538, 553-557, 578-582, 694, 743, 744 <i>Graphing Calculator Lab</i> 624-625 <i>Measurement Lab</i> 577 <i>Practice Test</i> 567 Teacher Wraparound Edition: AA 527, 528, 537; AE 526, 530, 534; FMC 525, 534; PA 529; TNT 533</p>

STANDARDS	PAGE REFERENCES
Find and verify the sum of the measures of interior angles of triangles and quadrilaterals.	<p>Student Edition: 524-529, 533-538, 540-545, 564, 694, 713, 728 #12, 732 #5 <i>Geometry Lab</i> 532 <i>Mid-Chapter Quiz</i> 539 <i>Practice Test</i> 567</p> <p>Teacher Wraparound Edition: A 529; AA 532; AE 525; FMC 534; PA 529</p>
4.7.2 Make scale drawings using ratios and proportions.	<p>Student Edition: 320-326, 336, 540-545, 551 #36, 557 #28, 565, LA14-LA17, 684, 695, 724 #10, 732 #4 <i>Measurement Lab</i> 654-655 <i>Practice Test</i> 337 <i>Spreadsheet Lab</i> 327</p> <p>Teacher Wraparound Edition: A 545; AE 321, 322, 542; FMC 322</p>
4.7.3 Demonstrate translation, reflection, and rotation using coordinate geometry and models.	<p>Student Edition: 553-557, 558-562, 566, 576 #31-#33, 696, 724 #11, 729 #13, 743, 744</p> <p>Teacher Wraparound Edition: AA 556, 559, 560, 561, 562; AE 554, 555, 559; FMC 554; T 553</p>
Describe the location of the original figure and its transformation on a coordinate plane.	<p>Student Edition: 553-557, 558-562, 566, 576 #31-#32, 696, 713 #12-#13, 721 #9, 724 #11, 729 #13, 743-744 <i>Practice Test</i> 567</p> <p>Teacher Wraparound Edition: AA 556, 559, 560, 561, 562; AE 554, 555, 559; FMC 554; T 553</p>
4.7.4 Make a model of a three-dimensional figure from a two-dimensional drawing.	<p>Student Edition: 613, 646-647, 649, 656 <i>Geometry Lab</i> 607 <i>Measurement Lab</i> 600-601</p> <p>Teacher Wraparound Edition: AA 607; DI 647; P 647; T 600, 607, 613, 646, 649</p>

STANDARDS	PAGE REFERENCES
<p>Make a two-dimensional drawing of a three-dimensional figure.</p>	<p>Student Edition: 608-612, 618 #31, 623 #38-#39, 629, 700, 714 #9, 745, 746 <i>Geometry Lab</i> 607 <i>Measurement Lab</i> 600-601, 654-655 Teacher Wraparound Edition: A 607, 655; AA 608, 611, 618, 623; AE 609; T 608</p>
<p>4.7.5 Determine slope of a line, midpoint of a segment, and the horizontal and vertical distance between two points using coordinate geometry.</p>	<p>Student Edition: 293-297, 309 #47, 334, 337 #14, 682, 709 #5-#6, 724 #8-#9, 732 #2 Finding the midpoint of a segment can be incorporated into a lesson with graphing on the coordinate plane. Teacher Wraparound Edition: A 296; AA 295, 296, 297, 309; AE 294; T 293; TNT 297</p>
<p>4.7.6 Describe the geometric relationships of parallel lines, perpendicular lines, triangles, quadrilaterals and bisectors.</p>	<p>Student Edition: <i>Reading Math</i> 515, 533-538, 539, LA10-LA13 Teacher Wraparound Edition: A LA13; AA 537, LA 13; AE LA11; FMC 534, LA11; T LA10; TNT 533, LA12</p>
<p>4.7.7 Model the Pythagorean Theorem and solve for the hypotenuse.</p>	<p>Student Edition: 640-645, 648 #12-#13, 651, LA18-LA20, 694, 702 Teacher Wraparound Edition: AE 641, 642, 643, LA19; EA 645; F 640; FMC 641, LA20; T 640; TNT 642, LA20</p>
<p>4.7.8 Construct and identify congruent angles, parallel lines, and perpendicular lines.</p>	<p>Student Edition: 510-513, 514-516, 533-538, 540-545, LA10-LA13, LA14-LA17, 693, 694 Teacher Wraparound Edition: A LA13; AA LA13; AE LA11; FMC LA11; TNT 542, LA12, LA16</p>
<p>4.7.9 Make and test conjectures to explain observed mathematical relationships and to develop logical arguments to justify conclusions.</p>	<p>Student Edition: 530-531, 583 #5, 601 #8 <i>Geometry Lab</i> 532 <i>Graphing Calculator Lab</i> 624-625 <i>Measurement Lab</i> 577, 654-655 Teacher Wraparound Edition: A 532; AA 530, 532, 624; AE 530; EC 577, 601, 655; F 654; T 577; TT 655</p>

STANDARDS	PAGE REFERENCES
5.0 Data Analysis	
<p>Content Standard 5.0 Students will collect, organize, display, interpret, and analyze data to determine statistical relationships and probability projections to solve problems, communicate, reason, and make connections within and beyond the field of mathematics.</p> <p>At a minimum, students will maintain previous skills and attain the following:</p>	
<p>5.7.1 Formulate questions that guide the collection of data.</p>	<p>Student Edition: 434-437, 438-443, 444-449, 454, 690, 711 <i>Practice Test</i> 455</p> <p>Teacher Wraparound Edition: AA 440, 447; AE 439; FMC 435, 439; PA 437; T 434; TNT 440</p>
<p>Organize, display, and read data using the appropriate graphical representations (with and without technology).</p>	<p>Student Edition: 408 #36, 410-414, 415-421, 423, 424-425, 426-431, 434-437, 444-449, 688 <i>Practice Test</i> 455 <i>Spreadsheet Lab</i> 422, 432-433</p> <p>Teacher Wraparound Edition: AA 421, 425; AE 411, 416, 428, 435; FMC 412, 416, 427; T 422; TNT 410</p>
<p>5.7.2 Interpret graphical representations of data to describe patterns, trends, and data distribution.</p>	<p>Student Edition: 396-401, 408 #36, 410-414, 415-421, 423, 424-425, 426-431, 434-437, 444-449, 455, 688, 711 <i>Mid-Chapter Quiz</i> 423 <i>Practice Test</i> 455 <i>Spreadsheet Lab</i> 422, 432-433</p> <p>Teacher Wraparound Edition: AA 421, 425; AE 411, 416, 428, 435; FMC 412, 416, 427; T 422; TNT 410</p>
<p>5.7.3 Analyze the effect a change of scale will have on statistical charts and graphs.</p>	<p>Student Edition: 444-449, 454, 690, 711 <i>Practice Test</i> 455 #10 <i>Spreadsheet Lab</i> 327</p> <p>Teacher Wraparound Edition: AA 449; AE 445, 446; EC 327; FMC 445; T 327, 444; TNT 448</p>

STANDARDS	PAGE REFERENCES
<p>5.7.4 Find the number of permutations possible for an event in mathematical and practical situations.</p>	<p>Student Edition: 475-478, 479 #10-#14, 480-483, 490 #23-#25, 500-501, 691, 692, 712 <i>Practice Test</i> 503</p> <p>Teacher Wraparound Edition: A 478, 483; AA 477; AE 476, 480, 481; DI 481; FMC 481; PA 478; T 475, 480</p>
<p>5.7.5 Find the theoretical probability of an event using different counting methods including sample spaces and compare that probability with experimental results.</p>	<p>Student Edition: 460-464, 465-470, 479, 480-483, 484-485, 486-490, 492-497, 513 #23-#26, 690, 693, 712, 725 #22-#23 <i>Practice Test</i> 503 <i>Probability Lab</i> 491 <i>Study Guide and Review</i> 499-502</p> <p>Teacher Wraparound Edition: A 483; AE 461, 462, 466, 467; DI 464; FMC 466, 487; TNT 460, 467, 486</p>
<p>Represent the probability of an event as a number between 0 and 1.</p>	<p>Student Edition: 460-464, 465-470, 479, 480-483, 484-485, 486-490, 492-497, 513 #23-#26, 690, 693, 712, 725 #22-#23 <i>Practice Test</i> 503 <i>Probability Lab</i> 491 <i>Study Guide and Review</i> 499-502</p> <p>Teacher Wraparound Edition: AA 489; AE 461, 462, 467, 481, 484, 487, 488; T 480, 486</p>
<p>5.7.6 Interpolate and extrapolate from data to make predictions for a given set of data.</p>	<p>Student Edition: 426-431, 434-437, 438-443, 449 #16-#17, 453, 457, 486-490, 689, 690, 692, 711 #8-#9 <i>Probability Lab</i> 491</p> <p>Teacher Wraparound Edition: A 491; AE 427, 428, 435; DI 491; FMC 427; PA 490; T 426, 434, 438</p>