



MathMatters 1

An Integrated Program

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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:

506-509

Chapter 11 Assessment 513 #13-#14

Chapter 11 Review 512 #31

Extended Practice 509 #22-#24

Extra Practice 585 Section 11-7 #1-#6, #7-#9

Try These Exercises 507 #1-#5

Annotated Teacher's Edition:

CE 507; EL 506, 507; LW 508

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

Student Edition:

20-21, 72-73, 128-129

Problem Solving Strategies 20, 72, 128

Annotated Teacher's Edition:

CE 21, 73, 129; EL 20, 73, 129; LW 21, 73, 129;

TT 72, 128

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<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: 20-21, 72-73, 128-129, 170-171, 238-239, 306-307, 460-461, 502-503 <i>Problem Solving Strategies</i> 20, 72, 128, 170, 238, 306, 460, 502 <i>Review and Practice Your Skills</i> 504 #8-#12 <i>Try These Exercises</i> 502 #1-#2</p> <p>Annotated Teacher's Edition: CE 21, 73, 129, 171, 239, 307, 461, 503; EL 20, 73, 129, 239, 307, 461, 462, 502, 503; LW 21, 73, 129, 171, 239, 307, 461, 503; TT 72, 128, 238</p>
<ul style="list-style-type: none"> Interpret and solve a variety of mathematical problems by paraphrasing 	<p>Student Edition: 34-37, 74-77, 228-231, 294-295, 328-331 <i>Try These Exercises</i> 35 #1-#5, 36 #6-#10, 75 #1-#15, 125 #1-#11, 126 #12-#14, 229 #1-#7, 230 #8-#15, 295 #1-#4, 330 #1-#12</p> <p>Annotated Teacher's Edition: AA 75, 328; CE 35, 75, 125, 229, 295, 329; EL 35, 124, 125, 295, 329; FG 74; LW 36, 76, 126, 230, 295, 330; PE 126; TT 34, 228, 229, 230</p>
<ul style="list-style-type: none"> Identify necessary and extraneous information 	<p>Student Edition: 124-127, 502-503 <i>Review and Practice Your Skills</i> 504 #8-#12 <i>Try These Exercises</i> 125 #1-#11, 126 #12-#14, 503 #1-#2</p> <p>Annotated Teacher's Edition: CE 125, 503; EL 124, 125, 502, 503; LW 126, 503; PE 126</p>
<ul style="list-style-type: none"> Check the reasonableness of a solution 	<p>Student Edition: 502-503 <i>Review and Practice Your Skills</i> 504 #8-#12 <i>Try These Exercises</i> 502 #1-#2</p> <p>Annotated Teacher's Edition: CE 503; EL 502, 503; LW 503</p>
<ul style="list-style-type: none"> Apply technology as a tool in problem solving situations 	<p>Student Edition: <i>Extended Practice Exercises</i> 55 #49-#52, 359 #27 <i>Practice Exercises</i> 21 #16, 41 #28, 277 #41-#44</p>
<ul style="list-style-type: none"> Apply combinations of proven strategies and previous knowledge to solve non-routine problems 	<p>Student Edition: 170-171, 502-503 <i>Try These Exercises</i> 171 #1-#5, 502 #1-#2</p> <p>Annotated Teacher's Edition: CE 171, 503; EL 502, 503; LW 171, 503</p>

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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:

- 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

- Use a variety of techniques to solve mathematical problems

Student Edition:

20-21, 128-131, 294-295, 306-307, 366-367, 460-463, 502-505

Try These Exercises 20 #1-#4, 128 #1-#4, 295 #1-#4, 307 #1-#5, 366 #1-#3, 460 #1-#3, 502 #1-#2

Annotated Teacher's Edition:

CE 21, 129, 130, 295, 307, 367, 461, 462, 503;
EL 20, 129, 295, 307, 366, 460, 461, 502, 503;
LW 21, 129, 295, 307, 367, 461, 503; TT 128, 131, 462, 463, 504, 505

- Evaluate written and oral presentations in mathematics

Student Edition:

40 #16

Chapter Review 44 *Chapter Investigation*

Try These Exercises 224 #12, #13, 262 #12, #13, 316 #10, 406 #12, 416 #12

Annotated Teacher's Edition:

AA 75, 225, 262; TT 226

- Model and explain mathematical relationships using oral, written, graphic, and algebraic methods

Student Edition:

72-73, 224 #40, 396 #45

Review and Practice Your Skills 312-313, 496 #6-#9

Try These Exercises 72 #1-#5, 396 #9, #14

Annotated Teacher's Edition:

AA 317; CE 73, 312; EL 73; FG 316; LW 73;
MW 313; TT 72, 312

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<ul style="list-style-type: none"> Communicate and evaluate mathematical thinking based on the use of definitions, properties, rules, and symbols in problem solving 	<p>Student Edition: 80-83, 118-121, 142-145, 352-355, 408-411 <i>Are You Ready</i> 206 #1-#6, #7-#12 <i>Try These Exercises</i> 82 #1-#14, 120 #1-#13, 144 #1-#17, 354 #1-#9, 409 #1-#15</p> <p>Annotated Teacher's Edition: CE 81, 119, 143, 353, 409; DI 82, 353; EL 80, 81, 83, 119, 411; LW 82, 120, 144, 354, 410; TT 206, 408, 409</p>
<ul style="list-style-type: none"> Use everyday language, both orally and in writing, communicate strategies and solutions to problems using appropriate mathematical language 	<p>Student Edition: 498-501, 504 #1-#5, #6-#7 <i>Try These Exercises</i> 499 #1-#3, 500 #4</p> <p>Annotated Teacher's Edition: AA 501; CE 499; EL 499; LW 500; TT 498, 500</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: 482-485, 488-491 <i>Try These Exercises</i> 484 #1-#7, 489 #1-#2, 490 #3-#8</p> <p>Annotated Teacher's Edition: CE 483, 489; EL 484, 489, 491; LW 484, 490; TT 483, 488</p>
<ul style="list-style-type: none"> Review and refine the assumptions and steps used to derive conclusions in mathematical arguments 	<p>Student Edition: 482-485, 488-491, 492-495, 498-501 <i>Try These Exercises</i> 484 #1-#7, 489 #1-#2, 490 #3-#8, 493 #1-#8, 499 #1-#3, 500 #4</p> <p>Annotated Teacher's Edition: AA 494, 501; CE 483, 489, 493, 499; DI 492; EL 484, 491, 499; LW 484, 490, 494, 500; TT 483, 488, 498, 500</p>

STANDARDS	PAGE REFERENCES
<ul style="list-style-type: none"> Make and test conjectures about algebraic and geometric properties based on mathematical principles 	<p>Student Edition: <i>MathWorks Workplace Knowhow</i> 487 <i>Review and Practice Your Skills</i> 486 #17-#20, 487 #24-#28</p> <p>Annotated Teacher's Edition: AA 486; CE 486; TT 487</p>
<ul style="list-style-type: none"> Justify the validity of an argument 	<p>Student Edition: 488-491 <i>Mid-Chapter Quiz</i> 497 #9-#10, #11 <i>Review and Practice Your Skills</i> 496 #1-#5, #6-#9 <i>Try These Exercises</i> 489 #1-#2, 490 #3-#8</p> <p>Annotated Teacher's Edition: CE 489, 496; EL 489, 491; LW 490; TT 488, 496, 497</p>
<ul style="list-style-type: none"> Construct a valid argument 	<p>Student Edition: 488-491 <i>Review and Practice Your Skills</i> 496 #10-#13 <i>Try These Exercises</i> 489 #1-#2, 490 #3-#8</p> <p>Annotated Teacher's Edition: CE 489, 496; EL 489, 491; LW 490; TT 488, 496, 497</p>
<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: 308-311, 334-337 <i>Chapter 7 Assessment</i> 345 #3-#5, #25 <i>Chapter 7 Review</i> 344 #34-#36 <i>Extra Practice</i> 572 Section 7-7 #1-#9, #10-#18, #19-#20 <i>Mid-Chapter Quiz</i> 323 #1-#6, #7-#10 <i>Try These Exercises</i> 310 #1-#15, 336 #1-#14</p> <p>Annotated Teacher's Edition: CE 309, 335; DI 308; EL 309, 334, 335, 336; LW 310, 336</p>

STANDARDS	PAGE REFERENCES
<ul style="list-style-type: none"> Explain the relationship between concepts and procedures 	<p>Student Edition: 328-331 <i>Extra Practice</i> 571 Section 7-6 #1-#8, 572 #9-#14, #15 <i>Try These Exercises</i> 330 #1-#12</p> <p>Annotated Teacher's Edition: AA 328; CE 329; EL 329; LW 330</p>
<ul style="list-style-type: none"> Use the connections among mathematical topics to develop multiple approaches to problems 	<p>Student Edition: 308-311, 318-321, 334-337 <i>Chapter 7 Assessment</i> 345 #3-#5, #13-#16, #24-#25 <i>Chapter 7 Review</i> 342 #16-#20, 343 #24-#28, 344 #34-#36 <i>Try These Exercises</i> 310 #1-#15, 320 #1-#12, 336 #1-#14</p> <p>Annotated Teacher's Edition: CE 309, 319, 335; DI 308; EL 309, 334, 335, 336; LW 310, 320, 336; TT 319</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: 366-367 <i>Practice Exercises</i> 367 #11 <i>Review and Practice Your Skills</i> 369 #23-#24 <i>Try These Exercises</i> 366 #1-#3</p> <p>Annotated Teacher's Edition: CE 367; EL 366; LW 367</p>
<ul style="list-style-type: none"> Identify, explain, and apply mathematics in everyday life 	<p>Student Edition: 270-273, 274-277 <i>Mid-Chapter Quiz</i> 279 #17-#20 <i>Review and Practice Your Skills</i> 278 #1-#6, #7-#12, #13-#18, #19-#24, #25-#27, #28-#33 <i>Try These Exercises</i> 271 #1-#6, 272 #7-#14, 276 #1-#13</p> <p>Annotated Teacher's Edition: CE 271, 275, 278; DI 278; EL 272, 274, 277; LW 272, 276; TT 270, 271, 273, 275, 276, 279</p>

STANDARDS	PAGE REFERENCES
Grade 12	
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>1.12.6 Determine an approximate value of radical and exponential expressions using a variety of methods.</p>	<p>Student Edition: 142-145, 404-407, 418-421 <i>Are You Ready</i> 393 #35-#38, #39-#41 <i>Chapter 9 Assessment</i> 429 #4-#19, #28-#33 <i>Try These Exercises</i> 144 #1-#17, 406 #1-#12, 420 #1-#13</p> <p>Annotated Teacher's Edition: AA 405; CE 143, 405, 419; EL 143, 406, 407, 420, 421; LW 144, 406, 420; TT 142, 404, 418, 419</p>
<p>1.12.7 Solve mathematical problems involving exponents and roots.</p>	<p>Student Edition: 132-135, 136-139, 142-145 <i>Chapter 3 Assessment</i> 149 #38-#39, #40-#43, #44-#47, #48-#55 <i>Chapter 3 Review</i> 148 #52-#55, #56-#63, #64-#75 <i>Review and Practice Your Skills</i> 140 <i>Try These Exercises</i> 134 #1-#14, 138 #1-#15, 144 #1-#17</p> <p>Annotated Teacher's Edition: CE 133, 137, 143; DI 136; EL 133, 137, 143; LW 134, 138, 144; TT 134, 142</p>
<p>Perform addition, subtraction, and scalar multiplication on matrices.</p>	<p>See Glencoe's <i>MathMatters 2: An Integrated Program</i> © 2009.</p> <p>Student Edition: 38-41, 44, 45, 47, 239 #11, 358-359, 360, 368, 369, 588</p>

STANDARDS	PAGE REFERENCES
<p>1.12.8 Identify and apply real number properties to solve problems.</p>	<p>Student Edition: 124-127, 208-211, 212-215 <i>MathWorks Workplace Knowhow</i> 217 <i>Review and Practice Your Skills</i> 130 #1-#8, #9-#29, #30-#35, 216-217 <i>Try These Exercises</i> 125 #1-#11, 126 #12-#14, 210 #1-#15, 214 #1-#14</p> <p>Annotated Teacher's Edition: AA 209; CE 125, 209, 213, 216; DI 212; EL 124, 125, 213; LW 126, 210, 214; MW 217; TT 208, 216, 217</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>2.12.1 Use algebraic expressions to identify and describe the n^{th} term of a sequence.</p>	<p>The following pages help introduce this concept.</p> <p>Student Edition: 128-129 <i>Try These Exercises</i> 128 #1-#3</p> <p>Annotated Teacher's Edition: CE 129; EL 129; LW 129; TT 128</p>
<p>2.12.2 Isolate any variable in given equations, inequalities, proportions, and formulas to use in mathematical and practical situations.</p>	<p>Student Edition: 212-215, 218-221, 222-225, 232-235, 240-243, 246-249, 260-263 <i>Chapter 5 Assessment</i> 253 <i>Chapter 5 Review</i> 250-252 <i>Mid-Chapter Quiz</i> 227 #9-#20, #21-#22 <i>Review and Practice Your Skills</i> 226-227, 236 #31-#36, 244 #10-#27 <i>Try These Exercises</i> 214 #1-#14, 220 #1-#15, 224 #1-#13, 234 #1-#9, 242 #1-#10, 248 #1-#9, 262 #1-#13</p> <p>Annotated Teacher's Edition: AA 262; CE 213, 219, 223, 226, 233, 241, 247, 261; DI 212, 218, 219, 240, 246, 261; EL 213, 223, 233, 241; LW 214, 220, 224, 234, 242, 248, 262; TT 217, 222, 226, 227, 232, 242, 247, 248, 260</p>

STANDARDS	PAGE REFERENCES
<p>2.12.3 Add, subtract, multiply, and factor 1st and 2nd degree polynomials connecting the arithmetic and algebraic processes.</p>	<p>Student Edition: 398-401, 404-407, 408-411, 414-417 <i>Chapter 9 Assessment</i> 429 #4-#14, #21-#26 <i>Chapter 9 Review</i> 426-428 <i>Mid-Chapter Quiz</i> 413 <i>Review and Practice Your Skills</i> 402 #31-#52, 412-413 <i>Try These Exercises</i> 399 #1-#9, 400 #10, 406 #1-#12, 409 #1-#15, 416 #1-#12</p> <p>Annotated Teacher's Edition: AA 405, 417; CE 399, 405, 409, 415; DI 399, 415; EL 401, 406, 407, 411, 416; LW 400, 406, 410, 416; TT 398, 400, 404, 408, 409, 410, 414</p>
<p>Simplify algebraic expressions, including exponents and radicals.</p>	<p>Student Edition: 132-135, 136-139, 142-145, 418-421 <i>Chapter 3 Assessment</i> 149 #38-#39, #40-#43, #44-#47, #48-#55 <i>Chapter 3 Review</i> 148 #52-#55, #56-#63, #64-#75 <i>Chapter 9 Assessment</i> 429 #28-#33 <i>Chapter 9 Review</i> 428 #92-#95 <i>Review and Practice Your Skills</i> 140 <i>Try These Exercises</i> 134 #1-#14, 138 #1-#15, 144 #1-#17, 420 #1-#13</p> <p>Annotated Teacher's Edition: CE 133, 137, 143, 419; DI 136; EL 133, 137, 143, 420, 421; LW 134, 138, 144, 420; TT 134, 142, 418, 419</p>
<p>2.12.4 Determine the domain and range of functions, including linear, quadratic, and absolute value, algebraically and graphically.</p>	<p>Student Edition: 314-317 <i>Mid-Chapter Quiz</i> 323 #11-#13 <i>Review and Practice Your Skills</i> 322 #4-#7, #8-#17, #18-#27 <i>Try These Exercises</i> 316 #1-#11</p> <p>Annotated Teacher's Edition: AA 317; CE 315; FG 315, 316; LW 316; TT 314</p>

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Solve absolute value equations and inequalities both algebraically and graphically.	<p>Student Edition: 104-107 <i>Extra Practice</i> 553 Section 3-1 #5-#8 <i>Review and Practice Your Skills</i> 112 #1-#15, #16-#24, #25-#33 <i>Try These Exercises</i> 106 #1-#15</p> <p>Annotated Teacher's Edition: CE 105; DI 105; LW 106; TT 106</p>
2.12.5 Solve systems of two linear equations algebraically and graphically and verify solutions (with and without technology).	<p>See Glencoe's <i>MathMatters 2: An Integrated Program</i> © 2009.</p> <p>Student Edition: 334-337, 338-341, 342-343, 344-347, 348-351, 352-353, 354-357, 366-367, 369, 370, 399, 445, 610-611</p>
2.12.6 Solve mathematical and practical problems involving linear and quadratic equations with a variety of methods, including discrete methods (with and without technology).	<p>Student Edition: 318-321 <i>MathWorks Workplace Knowhow</i> 333 <i>Practice Exercises</i> 321 #31-#32, #33-#35, #37, #41-#43, 331 #25, #26-#30, #31-#32 <i>Try These Exercises</i> 320 #1-#12</p> <p>Annotated Teacher's Edition: CE 319; LW 320; MW 333; TT 319</p> <p>Quadratic equations fall outside the scope of this text.</p>
3.0 Measurement	
<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.</p> <p>At a minimum, students will maintain previous skills and attain the following:</p>	
3.12.1 Estimate and convert between customary and metric systems.	<p>Student Edition: 52-55, 56-59 <i>Review and Practice Your Skills</i> 61 #63-#68, #69-#75 <i>Try These Exercises</i> 53 #1-#8, 54 #9-#11, 58 #1-#15</p> <p>Annotated Teacher's Edition: CE 53, 57; DI 56, 58; EL 53, 57; LW 54, 58; TT 52</p>

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<p>3.12.2 Justify, communicate, and differentiate between precision, error, and tolerance in practical problems.</p>	<p>Student Edition: 52 <i>Extra Practice</i> 549 Section 2-1 #1-#3, #8-#9, #10-#12 <i>Practice Exercises</i> 54 #12-#17, #34-#35 <i>Try These Exercises</i> 53 #1-#3 Annotated Teacher's Edition: CE 53; LW 54</p>
<p>3.12.3 Select and use appropriate measurement tools, techniques, and formulas to solve problems in mathematical and practical situations.</p>	<p>Student Edition: 56-59, 62-65, 66-69, 80-83 <i>Chapter 2 Assessment</i> 97 <i>Chapter 2 Review</i> 94-96 <i>Try These Exercises</i> 58 #1-#15, 64 #1-#11, 68 #1-#9, 82 #1-#14 Annotated Teacher's Edition: AA 62, 67; CE 57, 63, 67, 81; DI 56, 58, 68, 82; EL 57, 63, 66, 80, 81, 83; LW 58, 64, 68, 82</p>
<p>3.12.4 Interpret and apply consumer data presented in charts, tables, and graphs to make informed financial decisions related to practical applications.</p>	<p>Student Edition: 10-13, 16-19, 20-21, 24-27, 28-31, 34-37, 38-41 <i>Chapter 1 Assessment</i> 45 <i>Chapter 1 Review</i> 42-44 <i>Mid-Chapter Quiz</i> 23 <i>Try These Exercises</i> 11 #1-#8, 17 #1-#10, 20 #1-#4, 25 #1-#3, 26 #4-#10, 30 #1-#8, 35 #1-#5, 36 #6-#10, 39 #1-#10 Annotated Teacher's Edition: CE 11, 17, 21, 25, 29, 35, 39; DI 40; EL 10, 11, 16, 20, 24, 25, 30, 35, 39; LW 12, 18, 26, 30, 36, 40; TT 28, 29, 34</p>
<p>3.12.5 Determine the measure of unknown dimensions, angles, areas, and volumes using relationships and formulas to solve problems.</p>	<p>Student Edition: 66-69, 80-83, 90-93, 156-159, 184-187, 188-191 <i>Chapter 2 Assessment</i> 97 #18-#21, #27-#29 <i>Chapter 2 Review</i> 95 #30-#35, 96 #43-#51, #56-#60 <i>Try These Exercises</i> 68 #1-#9, 82 #1-#14, 92 #1-#8, 158 #1-#12, 186 #1-#10, 189 #1-#5, 190 #6-#11 Annotated Teacher's Edition: AA 67, 185; CE 67, 81, 91, 157, 185, 189; DI 68, 82, 156, 188; EL 66, 80, 81, 83, 91, 157, 184, 189; FG 90; LW 68, 82, 92, 158, 186, 190</p>

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4.0 Spatial Relationships, Geometry, and Logic	
<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.</p> <p>At a minimum, students will maintain previous skills and attain the following:</p>	
<p>4.12.1 Identify and use the parts of a circle to solve mathematical and practical problems.</p>	<p>Student Edition: 80-83, 169 #34-#36, 194-197 <i>Chapter 4 Assessment</i> 201 #19-#21, #27, #28, #30, #31 <i>Chapter 4 Review</i> 198-200 <i>Try These Exercises</i> 82 #1-#14, 196 #1-#9 Annotated Teacher's Edition: AA 195; CE 81, 195; DI 82, 194; EL 80, 81, 83; LW 82, 196</p>
<p>Identify and apply properties of interior and exterior angles of polygons to solve mathematical and practical problems.</p>	<p>Student Edition: 160-163, 362-365 <i>Practice Exercises</i> 162 #9-#12, #14-#16, 163 #17-#20 <i>Review and Practice Your Skills</i> 164 #28-#31, #32-#35, 165 #48-#51, 368 #1-#6, #7-#9 <i>Try These Exercises</i> 363 #1-#5, 364 #6-#8 Annotated Teacher's Edition: AA 161, 363; CE 161, 363; EL 160, 364; LW 162, 364</p>
<p>4.12.2 Apply properties of similarity through right triangle trigonometry to find missing angles and sides.</p>	<p>See Glencoe's <i>MathMatters 2: An Integrated Program</i> © 2009. Student Edition: 488-491, 492-493, 494-497, 498-501, 502-503, 504-507, 508-509, 511-512, 513</p>
<p>4.12.5 Determine the slope of lines using coordinate geometry and algebraic techniques.</p>	<p>Student Edition: 324-327 <i>Chapter 7 Assessment</i> 345 #17-#20 <i>Chapter 7 Review</i> 343 #29-#30 <i>Extra Practice</i> 571 Section 7-5 #1-#4, #5-#13, #14-#16, #17-#18, #19-#22 <i>Review and Practice Your Skills</i> 332 #1-#8, #9-#17 <i>Try These Exercises</i> 326 #1-#11 Annotated Teacher's Edition: AA 325; CE 325; DI 324; EL 326, 327; LW 326</p>

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Identify parallel, perpendicular, and intersecting lines by slope.	Student Edition: 327 #42 Annotated Teacher's Edition: ETL 326
Graph linear equations and find possible solutions to those equations using coordinate geometry.	Student Edition: 318 example 1, 320 example 4 Annotated Teacher's Edition: CE 319; QA 320
Find possible solution sets of systems of equations whose slopes indicate parallel, perpendicular, or intersecting lines.	See Glencoe's <i>MathMatters 2: An Integrated Program</i> © 2009. Student Edition: 334-337, 338-341, 342-343, 344-347, 348-351, 352-353, 354-357, 366-367, 369, 370, 399, 445, 610-611
4.12.6 Solve problems using complementary and supplementary angles, congruent angles, vertical angles, angles formed when parallel lines are cut by a transversal and angles in polygons.	Student Edition: 352-355 <i>Mid-Chapter Quiz</i> 369 #1-#10 <i>Review and Practice Your Skills</i> 360 #1-#3, #4-#12, #13-#15, #16-#21, 361 #29-#34, #35-#37 <i>Try These Exercises</i> 354 #1-#9 Annotated Teacher's Edition: CE 353, 360; DI 353, 354; LW 354; TT 352, 360
4.12.7 Apply the Pythagorean Theorem and its converse in mathematical and practical situations.	Student Edition: 334-337 <i>Chapter 7 Assessment</i> 345 #24 <i>Chapter 7 Review</i> 344 #34, #36 <i>Extra Practice</i> 572 Section 7-7 #1-#9 <i>Try These Exercises</i> 336 #1-#14 Annotated Teacher's Edition: CE 335; EL 334, 335, 336; LW 336

STANDARDS	PAGE REFERENCES
<p>4.12.8 Solve problems by drawing and/or constructing geometric figures to demonstrate geometric relationships.</p>	<p>Student Edition: 356-359, 370-373, 374-377, 380-383 <i>Chapter 8 Assessment</i> 387 <i>Chapter 8 Review</i> 384-386 <i>MathWorks Workplace Knowhow</i> 361 <i>Review and Practice Your Skills</i> 360 #22-#28, 361 #38-#42 <i>Try These Exercises</i> 358 #1-#9, 371 #1-#4, 372 #5-#8, 376 #1-#9, 382 #1-#8</p> <p>Annotated Teacher's Edition: AA 374; CE 357, 371, 375, 381; DI 356; EL 357; LW 358, 372, 376, 382; MW 361; TT 370, 371, 375, 380, 381</p>
<p>4.12.9 Formulate, evaluate, and justify arguments using inductive and deductive reasoning in mathematical and practical situations.</p>	<p>The following pages help introduce this concept.</p> <p>Student Edition: Concept Introduced 482-485, 488-491 <i>Extra Practice</i> 583 Section 11-2 #1-#2, #3-#6, #7-#10, Section 11-3 #1-#2, #3-#6 <i>Try These Exercises</i> 484 #1-#7, 489 #1-#2, 490 #3-#8</p> <p>Annotated Teacher's Edition: CE 489, 496; EL 489, 491; LW 490; TT 488, 496, 497</p>
<p>5.0 Data Analysis</p>	
<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>5.12.1 Organize statistical data through the use of tables, graphs, and matrices (with and without technology).</p>	<p>Student Edition: 16-19, 20-21, 24-27, 28-31, 34-37, 38-41 <i>Chapter 1 Assessment</i> 45 <i>Chapter 1 Review</i> 42-44 <i>Mid-Chapter Quiz</i> 23 #8 <i>Review and Practice Your Skills</i> 22-23, 32-33 <i>Try These Exercises</i> 17 #1-#10, 20 #1-#4, 25 #1-#3, 26 #4-#10, 30 #1-#8, 35 #1-#5, 36 #6-#10, 39 #1-#10</p> <p>Annotated Teacher's Edition: CE 17, 21, 25, 29; EL 16, 20, 24, 25, 30; LW 18, 21, 26, 30; TT 28, 29</p>

STANDARDS	PAGE REFERENCES
<p>5.12.2 Select and apply appropriate statistical measures in mathematical and practical situations.</p>	<p>Student Edition: 10-13 <i>Chapter 1 Assessment</i> 45 #14-#15 <i>Chapter 1 Review</i> 43 #16-#22 <i>Review and Practice Your Skills</i> 14 #8-#12, #13-#16, #17-#21, #22-#26, 15 #32-#35 <i>Try These Exercises</i> 11 #1-#8 Annotated Teacher's Edition: CE 11; EL 10, 11; LW 12</p>
<p>5.12.3 Distinguish between a sample and a census.</p>	<p>Student Edition: 6-9 <i>Extra Practice</i> 545 #1-#3, #4-#6, #7-#9 <i>Review and Practice Your Skills</i> 14 #1-#4, #5-#7, 15 #27-#29 <i>Try These Exercises</i> 7 #1-#3, 8 #4-#10 Annotated Teacher's Edition: CE 7; DI 6; EL 7; LW 8</p>
<p>Identify sources of bias and their effect on data representations and statistical conclusions.</p>	<p>Student Edition: 38-41 <i>Chapter 1 Assessment</i> 45 #20 <i>Chapter 1 Review</i> 44 #41-#46 <i>Try These Exercises</i> 17 #1-#10, 20 #1-#4, 25 #1-#3, 26 #4-#10, 30 #1-#8, 35 #1-#5, 36 #6-#10, 39 #1-#10 Annotated Teacher's Edition: CE 39; DI 40; EL 39; LW 40</p>
<p>Use the shape of a normal distribution to compare and analyze data from a sample.</p>	<p>Student Edition: 38-41 <i>Chapter 1 Assessment</i> 45 #20 <i>Chapter 1 Review</i> 44 #41-#46 <i>Try These Exercises</i> 39 #1-#10 Annotated Teacher's Edition: CE 39; DI 40; EL 39; LW 40</p>
<p>5.12.4 Apply permutations and combinations to mathematical and practical situations, including the Fundamental Counting Principle.</p>	<p>Student Edition: 450-453 <i>Mid-Chapter Quiz</i> 455 #15-#18 <i>Review and Practice Your Skills</i> 454 #15-#19, #20-#24, #25 <i>Try These Exercises</i> 451 #1-#10 Annotated Teacher's Edition: CE 451; DI 450; LW 452; TT 451, 452, 453</p>

STANDARDS	PAGE REFERENCES
<p>5.12.5 Determine the probability of an event with and without replacement using sample spaces.</p>	<p>Student Edition: 436-439, 440-443, 446-449 <i>Mid-Chapter Quiz</i> 455 #1-#8, #9-#12, #13-#14, #15-#18 <i>Review and Practice Your Skills</i> 444-445 <i>Try These Exercises</i> 438 #1-#14, 442 #1-#15</p> <p>Annotated Teacher's Edition: AA 442; CE 437, 441, 447; DI 437; EL 438, 439; FG 436, 440; LW 438, 442, 448; TT 441, 446, 447</p>
<p>Design, conduct, analyze, and effectively communicate the results of multi-stage probability experiments.</p>	<p>Student Edition: 456-459, 460-463, 464-467 <i>Chapter 10 Assessment</i> 471 <i>Chapter 10 Review</i> 468-470 <i>Try These Exercises</i> 457 #1-#8, 460 #1-#3, 466 #1-#6</p> <p>Annotated Teacher's Edition: CE 457, 461, 465; DI 456; EL 458, 460, 461, 464, 465, 466; LW 458, 461, 466; TT 457, 467</p>
<p>5.12.6 Design, construct, analyze, and select an appropriate type of graphical representations to communicate the results of a statistical experiment.</p>	<p>Student Edition: 16-19, 20-21, 24-27, 28-31, 34-37, 38-41 <i>Chapter 1 Assessment</i> 45 <i>Chapter 1 Review</i> 42-44 <i>Mid-Chapter Quiz</i> 23 #8 <i>Review and Practice Your Skills</i> 22-23, 32-33 <i>Try These Exercises</i> 17 #1-#10, 20 #1-#4, 25 #1-#3, 26 #4-#10, 30 #1-#8, 35 #1-#5, 36 #6-#10, 39 #1-#10</p> <p>Annotated Teacher's Edition: CE 17, 21, 25, 29; EL 16, 20, 24, 25, 30; LW 18, 21, 26, 30; TT 28, 29</p>
<p>Formulate and justify inferences based on a valid data sample.</p>	<p>Student Edition: 482-485, 488-491, 492-495 <i>Try These Exercises</i> 484 #1-#7, 489 #1-#2, 490 #3-#8, 493 #1-#8</p> <p>Annotated Teacher's Edition: AA 494; CE 483, 489, 493; DI 492; EL 484, 489; LW 484, 490, 494; TT 483, 488</p>