



# Mathematics

Applications and Concepts  
Course 2  
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STANDARDS		PAGE REFERENCES
<b>GRADE 7</b>		
<b>Standard 1: Number and Operation</b>		
Students in Grade 7 read, write, compare, order, and place on a number line: rational numbers, including integers, fractions, and decimals, and absolute values. Students solve problems requiring the conversion between simple decimals, fractions, and percents. Students add, subtract, multiply, and divide whole numbers, fractions, and decimals and students evaluate numerical expressions using the order of operations with whole numbers and decimals. Students explain when estimation is appropriate and describe the usefulness of an estimate as opposed to an exact answer.		
<b>Goal 1.1: Understand and use numbers.</b>		
<b>Objective(s): By the end of Grade 7, the student will be able to:</b>		
7.M.1.1.1	Compare magnitudes and relative magnitudes of rational numbers, including integers, fractions, and decimals. (327.01.a , 327.01.c)	<b>Student Edition:</b> 13 #59, 104, 108 #29, 123 #43-#45, 124 #58, 163 #40, #41, 169 #40-#41, 223 #34-#37, 612 #1 <i>WebQuest</i> 193 <b>Teacher Wraparound Edition:</b> DI 358
7.M.1.1.2	Solve problems requiring the conversion between simple decimals, fractions, ratios, and percents. (327.01.b)	<b>Student Edition:</b> 210-213, 216-219, 220-223, 231, 234, 237 #19, 288-291, 312-315, 318 #39, 331 #18, 600 #6-#9 <i>WebQuest</i> 193 <b>Teacher Wraparound Edition:</b> A 219, 315; IE 211; PS 235, 329

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7.M.1.1.3	Locate the position of rational numbers on a number line. (327.01.e)	<b>Student Edition:</b> 106-107, 109-110, 131, 146 #10, 556 <b>Teacher Wraparound Edition:</b> A 108; TNT 121
7.M.1.1.4	Rewrite multiple factors using exponents. (327.02.c)	<b>Student Edition:</b> 10-13, 28 #4, 146 #2, 195 #15-#18, 564 #19-#24 <b>Teacher Wraparound Edition:</b> IE 11
7.M.1.1.5	Apply the number theory concepts of primes, composites, and prime factorization and find the Least Common Multiple (LCM) and the Greatest Common Factor (GCF). (327.01.d)	<b>Student Edition:</b> 197-200, 203-206, 214 #1, 224-226, 229 #3, #4, 235 #4 <i>Hands-On Lab</i> 196 <b>Teacher Wraparound Edition:</b> A 200, 206; DI 198; IE 198, 204; PC 194F
7.M.1.1.6	Recognize pertinent information for problem solving. (328.01.b)	<b>Student Edition:</b> <i>Hands-On Lab</i> 344 <i>Problem-Solving Strategy</i> 22-23, 164-165, 201-202, 444-445 <i>Study Skill</i> 153 <i>WebQuest</i> 3, 103, 193 <b>Teacher Wraparound Edition:</b> PS 189, 281
7.M.1.1.7	Describe the use of integers in real-world situations.	<b>Student Edition:</b> 104, 108 #29, 115 #37-#41, 123 #43-#45, 129 #6, 140 #34, 147 #16-#17 <b>Teacher Wraparound Edition:</b> DI 109, 129, 139; IE 107
7.M.1.1.8	Use appropriate vocabulary.	<b>Student Edition:</b> 197, 203, 210-213, 220-223 <i>Problem-Solving Strategy</i> 164-165, 201-202 <i>WebQuest</i> 3, 103, 193
<b>Goal 1.2: Perform computations accurately.</b>		
<b>Objective(s): By the end of Grade 7, the student will be able to:</b>		
7.M.1.2.1	Recall the common equivalent fractions, decimals, and percents of halves, fourths, and tenths.	<b>Student Edition:</b> 210-213, 216-219, 220-223, 234, 312-315, 318 #45-#48, 321 #27-#30, 328, 329 #13-#15 <b>Teacher Wraparound Edition:</b> A 219, 315; IE 211, 221; PS 235, 329

STANDARDS		PAGE REFERENCES
7.M.1.2.2	Add, subtract, multiply, and divide whole numbers, fractions and decimals; and add, multiply, and divide integers. (327.02.a, 327.02.d)	<p><b>Student Edition:</b>  6-9, 13 #68-#75, 105, 120-123, 128-131, 134-137, 138-141, 144, 244-247, 254-257, 264-267, 559-562  <i>Hands-On Lab</i> 118-119, 126-127  <i>Problem-Solving Strategy</i> 22-23  <i>The Game Zone</i> 263  <i>WebQuest</i> 3, 103, 193</p> <p><b>Teacher Wraparound Edition:</b>  IE 121, 135, 265</p>
7.M.1.2.3	Evaluate whole numbers in exponential form.	<p><b>Student Edition:</b>  11-13, 17 #56-#59, 28 #5-#7, 47 #8-#15, 49 #3, #4, 564 #7-#18</p> <p><b>Teacher Wraparound Edition:</b>  A 13</p>
7.M.1.2.4	Evaluate numerical expressions using the order of operations with whole numbers and decimals. (327.02.b)	<p><b>Student Edition:</b>  14-17, 21 #50-#54, 27 #51-#53, 28 #8-#10, 564 #1-#27, 596 #5, #6</p> <p><b>Teacher Wraparound Edition:</b>  A 17; B 14; DI 15; IE 15</p>
7.M.1.2.5	Select and use an appropriate method of computation from mental math, paper and pencil, calculator, or a combination of the three. (327.02.e)	<p><b>Student Edition:</b>  17 #51, #52, 33 #40, 210, 211, 242 #2, 320 #2, 476 #2, 493 #1, 561  <i>Spreadsheet Investigation</i> 361  <i>Study Tip</i> 38, 221, 320  <i>The Game Zone</i> 29</p> <p><b>Teacher Wraparound Edition:</b>  DI 198, 211, 255; TT 361</p>
7.M.1.2.6	Use a variety of strategies including common mathematical formulas to compute problems drawn from real life situations. (328.01.a)	<p><b>Student Edition:</b>  6-9, 28 #18, 45 #44, 139 #4, 163 #38, #39, 169, 191 #20, 271, 477, 510  <i>Problem-Solving Strategy</i> 22-23, 132-133, 201-202, 252-253, 338-339, 444-445  <i>Study Skill</i> 125, 153  <i>WebQuest</i> 3, 103, 193</p> <p><b>Teacher Wraparound Edition:</b>  DI 7, 139; PC 4F, 148F; TNT 471</p>
7.M.1.2.7	Use appropriate vocabulary and notations. (327.02.f)	<p><b>Student Edition:</b>  11-13, 14-17, 33, 210-211  <i>Problem-Solving Strategy</i> 22-23, 164-165, 201-202</p> <p><b>Teacher Wraparound Edition:</b>  DI 15</p>

STANDARDS		PAGE REFERENCES
<b>Goal 1.3: Estimate and judge reasonableness of results.</b>		
<b>Objective(s): By the end of Grade 7, the student will be able to:</b>		
7.M.1.3.1	Estimate to predict computation results. (327.03.a)	<b>Student Edition:</b> 243 #39, 343 #31, 477 #32 <i>Hands-On Lab</i> 301 <i>Problem-Solving Strategy</i> 22-23, 252-253, 338-339 <i>When</i> 334 <b>Teacher Wraparound Edition:</b> A 243, 476; DI 335; NS 335
7.M.1.3.2	Explain when estimation is appropriate and describe the usefulness of an estimate as opposed to an exact answer. (327.03.b)	<b>Student Edition:</b> 7, 21 #43, 50 #3, 295 #23 <i>Hands-On Lab</i> 301 <i>Problem-Solving Strategy</i> 22-23, 252-253, 338-339 <i>When</i> 334
7.M.1.3.3	Identify whether a given estimate is an overestimate or underestimate. (327.03.c)	<b>Student Edition:</b> <i>Hands-On Lab</i> 301 <i>Problem-Solving Strategy</i> 22-23, 165 #15, 338-339 <i>WebQuest</i> 3, 103 <i>When</i> 319 <b>Teacher Wraparound Edition:</b> NS 336
7.M.1.3.4	Use a four-function calculator to solve complex grade-level problems.	<b>Student Edition:</b> 336 #6, 476 #2 <i>WebQuest</i> 3, 103, 193 <b>Teacher Wraparound Edition:</b> DI 313
7.M.1.3.5	Formulate conjectures and discuss why they must be or seem to be true. (328.02.c)	<b>Student Edition:</b> <i>Hands-On Lab</i> 301, 344, 322 <i>WebQuest</i> 3, 103, 193 <i>When</i> 248
7.M.1.3.6	Use appropriate vocabulary and notations. (327.03.d)	<b>Student Edition:</b> 557, 558 <i>Hands-On Lab</i> 301, 344 <i>Study Tip</i> 240, 242 <b>Teacher Wraparound Edition:</b> TNT 335

STANDARDS		PAGE REFERENCES
<b>Standard 2: Concepts and Principles of Measurement</b>		
Students in Grade 7 select and use appropriate units and tools to make formal measurements in both systems. Students apply given formulas for perimeter, circumference, or area of triangles, circles, and quadrilaterals. Students solve problems involving perimeter and area of rectangles and squares. Students compare units and explain their relationship to one another and to real-world applications.		
<b>Goal 2.1: Understand and use U.S. customary and metric measurements.</b>		
<b>Objective(s): By the end of Grade 7, the student will be able to:</b>		
7.M.2.1.1	Select and use appropriate units and tools to make formal measurements in both systems. (329.01.a)	<b>Student Edition:</b> 38-41, 169 #40-#41, 205 #30-#31, 218 #15, 248, 267-269, 526 #27, 542-545 <i>Spreadsheet Investigation</i> 309 <i>WebQuest</i> 193 <b>Teacher Wraparound Edition:</b> A 273; DI 267; TNT 419
7.M.2.1.2	Apply estimation of measurement to real-world and content problems using standard measuring devices. (329.01.b)	<b>Student Edition:</b> 38-41, 50 #3, 267-269, 308 #23 <i>WebQuest</i> 193 <i>When</i> 240 <b>Teacher Wraparound Edition:</b> DI 139
7.M.2.1.3	Explain the differences between perimeter, area, and volume (capacity) and their measures within both systems. (329.01.c)	<b>Student Edition:</b> 270-273, 280 #60-#65, 281 #23, 291 #43-#46 <i>Spreadsheet Investigation</i> 523 <b>Teacher Wraparound Edition:</b> B 520; PS 281
7.M.2.1.4	Given the formulas, find the perimeter, circumference, or area of triangles, circles, and quadrilaterals. (331.01.e)	<b>Student Edition:</b> 28 #18, 163 #44, 200 #44-#47, 261 #37, 270-273, 275-277, 280 #60-#65, 281 #23, 477 #34, 483-485, 489-492, 493-495 <b>Teacher Wraparound Edition:</b> A 273; DI 271, 493; IE 271
7.M.2.1.5	Convert units of measurement within each system. (329.01.e)	<b>Student Edition:</b> 38-41, 48 #48-#52, 51 #18, 267-269, 273 #35-#38, 289 #3, 331 #18a <i>Study Skill</i> 42 <i>WebQuest</i> 193 <b>Teacher Wraparound Edition:</b> DI 267; IE 268

STANDARDS		PAGE REFERENCES
7.M.2.1.6	Solve problems involving perimeter and area of rectangles and triangles. (329.01.d)	<b>Student Edition:</b> 200 #44-#47, 270-273, 473 #37-#38 <b>Teacher Wraparound Edition:</b> A 273
7.M.2.1.7	Use appropriate vocabulary and notations. (329.01.f)	<b>Student Edition:</b> 38-41, 200 #44-#47, 273 #29, 473 #37-#38, 477 #34
<b>Goal 2.2: Apply the concepts of rates, ratios, and proportions.</b>		
<b>Objective(s): By the end of Grade 7, the student will be able to:</b>		
7.M.2.2.1	Explain rates and their relationship to ratios, and use proportions to solve problems represented with a diagram. (329.02.a, 329.03.a)	<b>Student Edition:</b> 288-291, 292-295, 297-300, 305 #2, 306 #5-#7, 326, 327, 329 #11, 330 #5 <b>Teacher Wraparound Edition:</b> DI 298, 304; IE 305; TNT 298
7.M.2.2.2	Reduce rates to unit rates.	<b>Student Edition:</b> 292-295, 308 #31-#34, 327, 602 #3 <b>Teacher Wraparound Edition:</b> A 295; B 297; DI 293; IE 293; TNT 293
<b>Goal 2.3: Apply dimensional analysis.</b>		
<b>Objective(s): By the end of Grade 7, the student will be able to:</b>		
7.M.2.3.1	Identify properly constructed dimensional analysis conversions. (329.04.a)	After providing the definition, the following can be used to meet this standard. <b>Student Edition:</b> 161 #3, 599 #4 <i>Hands-On Lab</i> 296
<b><u>Standard 3: Concepts and Language of Algebra and Functions</u></b>		
Students in Grade 7 use variables in simple expressions and equations and students use symbols "<," ">," "=", "≠," "≤," and "≥" to express relationships. Students use the order of operations in evaluating simple algebraic expressions and students solve one-step equations. Students extend patterns involving rational numbers and describe the rule that generates the pattern.		
<b>Goal 3.1: Use algebraic symbolism as a tool to represent mathematical relationships.</b>		
<b>Objective(s): By the end of Grade 7, the student will be able to:</b>		
7.M.3.1.1	Use variables in simple expressions and equations. (330.01.a)	<b>Student Edition:</b> 4, 18-21, 24-27, 40 #25, 101 #9, 150-152, 186, 191 #19, #20 <i>Study Skill</i> 153 <b>Teacher Wraparound Edition:</b> B 24; DI 19, 25; IE 19, 25, 151; PS 49

STANDARDS		PAGE REFERENCES
7.M.3.1.2	Translate simple word statements into algebraic expressions and equations. (330.01.b)	<b>Student Edition:</b> 21 #44, #45, 25 #3, 33 #49, 49 #25, 150-152 <i>Study Skill</i> 153 <b>Teacher Wraparound Edition:</b> DI 150; IE 151; PS 49
7.M.3.1.3	Use symbols “<,” “>,” “=,” “≠,” “≤,” and “≥” to express relationships. (330.01.c)	<b>Student Edition:</b> 27 #42-#43, 115 #47-#50; 140 #33, 145 #6-#8, 172-175 <i>Note: See insert on final text page</i> <b>Teacher Wraparound Edition:</b> PS 49
<b>Goal 3.2: Evaluate algebraic expressions.</b>		
<b>Objective(s): By the end of Grade 7, the student will be able to:</b>		
7.M.3.2.1	Evaluate simple numeric and algebraic expressions using commutative, associative, identity, zero, inverse, distributive, and substitution properties. (330.02.a)	<b>Student Edition:</b> 30-33, 36 #30, #31, 41 #51-#54, 48, 49 #15, #16, 50 #6, 121, 124 #60, #61, 135 #5, 156, 236 #4, 258 <i>Study Tip</i> 135 <b>Teacher Wraparound Edition:</b> A 33, 261; IE 31
7.M.3.2.2	Use the order of operations in evaluating simple algebraic expressions. (330.02.b)	<b>Student Edition:</b> 14-17, 19 #2, #4, 21 #55-#58, 27 #51-#53, 47 #17-#24, 79 #29-#32 <b>Teacher Wraparound Edition:</b> A 17; DI 15; IE 15
<b>Goal 3.3: Solve algebraic equations and inequalities.</b>		
<b>Objective(s): By the end of Grade 7, the student will be able to:</b>		
7.M.3.3.1	Solve one-step equations. (330.03.a)	<b>Student Edition:</b> 24-27, 33 #45-#48, 47 #32-#39, 50 #4, 156-158, 160-163, 169 #45-#48, 170 #6-#14, 187, 258-261, 279 #38-#44 <i>Hands-On Lab</i> 154-155 <i>The Game Zone</i> 171 <b>Teacher Wraparound Edition:</b> B 160; IE 25, 157, 161, 259

STANDARDS		PAGE REFERENCES
<b>Goal 3.4: Understand the concept of functions.</b>		
<b>Objective(s): By the end of Grade 7, the student will be able to:</b>		
7.M.3.4.1	Extend patterns involving rational numbers and describe the rule that generates the pattern. (333.01.a)	<b>Student Edition:</b> 8, 34-36, 88 #7-#10, 177-181 <i>Problem-Solving Strategy</i> 132-133 <b>Teacher Wraparound Edition:</b> B 177; DI 177; IE 178
7.M.3.4.2	Explain how a change in one quantity impacts a change in another quantity. (333.01.b)	<b>Student Edition:</b> 177-181 <i>Hands-On Lab</i> 176 #5, 274 <b>Teacher Wraparound Edition:</b> IE 178-179
7.M.3.4.3	Use appropriate vocabulary and notations. (333.01.c)	<b>Student Edition:</b> 177 <i>Study Tip</i> 178 <b>Teacher Wraparound Edition:</b> B 177; BWW 148D
<b>Goal 3.5: Represent equations, inequalities and functions in a variety of formats.</b>		
<b>Objective(s): By the end of Grade 7, the student will be able to:</b>		
7.M.3.5.1	Represent a simple set of data in a table, as a graph, and as a mathematical relationship. (333.02.a)	<b>Student Edition:</b> 159 #37-#38, 163 #40, #41; 175 #36-#39 <i>Hands-On Lab</i> 176 <i>Problem-Solving Strategy</i> 164-165
<b>Goal 3.6: Apply functions to a variety of problems.</b>		
<b>Objective(s): By the end of Grade 7, the student will be able to:</b>		
7.M.3.6.1	Use patterns and linear functions to represent and solve simple problems. (333.03.a)	<b>Student Edition:</b> 177-181, 182-185

STANDARDS		PAGE REFERENCES
<b>Standard 4: Concepts and Principles of Geometry</b>		
Students in Grade 7 describe and classify relationships among types of one-, two-, and three-dimensional geometric figures using their defining properties. Students draw and measure various angles and shapes using appropriate tools and students identify congruence, similarities, and line symmetry of shapes. Students identify and plot points on a coordinate plane.		
<b>Goal 4.1: Apply concepts of size, shape, and spatial relationships.</b>		
<b>Objective(s): By the end of Grade 7, the student will be able to:</b>		
7.M.4.1.1	Classify relationships among types of one- and two-dimensional geometric figures, using their defining properties. (331.01.a)	<b>Student Edition:</b> 422-425, 428-431, 434-437, 438 #12-#14, 440-443, 463 <i>Problem-Solving Strategy</i> 444 <i>WebQuest</i> 409 <b>Teacher Wraparound Edition:</b> B 498; DI 441; IE 423, 435, 447
7.M.4.1.2	Draw and measure various angles and shapes using appropriate tools. (331.01.b)	<b>Student Edition:</b> 283 #16, 413-415, 424 #1 <i>Hands-On Lab</i> 274, 412, 416-417, 432-433, 488 <i>Hands-On Mini Lab</i> 428, 440 <i>WebQuest</i> 409 <b>Teacher Wraparound Edition:</b> A 415; B 413, 428; DI 413
7.M.4.1.3	Apply fundamental concepts, properties, and relationships among points, lines, rays, planes, and angles. (331.01.c)	<b>Student Edition:</b> 413-415, 422-425, 462, 463, 465 #6-#8 <i>Hands-On Lab</i> 417 #4 <i>WebQuest</i> 409 <b>Teacher Wraparound Edition:</b> A 415, 425; PC 410F
7.M.4.1.4	Explain and model the effects of reflections, translations, and rotations on various shapes. (331.01.g)	<b>Student Edition:</b> 446-450, 451-454, 456-459, 464 <i>Hands-On Lab</i> 460-461 <b>Teacher Wraparound Edition:</b> A 415; DI 451; IE 452, 457
7.M.4.1.5	Identify congruence, similarities, and line symmetry of shapes. (331.01.d)	<b>Student Edition:</b> 440-443, 464, 466 #6, 467 #16 <i>Problem-Solving Strategy</i> 444 <i>Spreadsheet Investigation</i> 523 <i>WebQuest</i> 409 <b>Teacher Wraparound Edition:</b> IE 441; TNT 440

STANDARDS		PAGE REFERENCES
7.M.4.1.6	Describe the concept of surface area and volume (capacity). (331.01.f)	<b>Student Edition:</b> 520-522, 524-527, 532-535, 538-541, 547-548, 549 #6-#11, 550 #6-#8, 607 <i>Hands-On Lab</i> 530-531 <i>Spreadsheet Investigation</i> 523 <b>Teacher Wraparound Edition:</b> A 535; B 520
7.M.4.1.7	Use appropriate vocabulary and symbols. (331.01.h)	<b>Student Edition:</b> 413, 415 #19, 422-424, 428-431, 434, 440-443, 446-450, 451, 456-457, 520, 524, 532, 538 <i>Hands-On Lab</i> 417 #4, 460-461 <i>WebQuest</i> 409
<b>Goal 4.2: Apply the geometry of right triangles.</b>		
No objectives at this grade level.		
<b>Goal 4.3: Apply graphing in two dimensions.</b>		
<b>Objective(s): By the end of Grade 7, the student will be able to:</b>		
7.M.4.3.1	Identify and plot points on a coordinate plane.	<b>Student Edition:</b> 112-115, 124 #64-#67, 137 #46-#48, 143, 145 #10-#12, 146 #8, 147 #20, 236 #5, 283 #9 <i>The Game Zone</i> 117 <b>Teacher Wraparound Edition:</b> IE 113

STANDARDS		PAGE REFERENCES
<b><u>Standard 5: Data Analysis, Probability, and Statistics</u></b>		
Students in Grade 7 read and interpret tables, charts, and graphs, including frequency tables, scatter plots, line graphs, line plots, bar graphs, histograms, circle graphs, and stem-and-leaf plots. Students collect, organize and display data with appropriate notation in tables, charts and graphs, including scatter plots, line graphs, line plots, bar graphs, and stem-and-leaf plots. Students determine the measures of central tendency – mean, median and mode – with sets of data and students predict, perform, and record results of simple probability experiments.		
<b>Goal 5.1: Understand data analysis.</b>		
<b>Objective(s): By the end of Grade 7, the student will be able to:</b>		
7.M.5.1.1	Read and interpret tables, charts, and graphs, including frequency tables, scatter plots, broken line graphs, line plots, bar graphs, histograms, circle graphs, and stem-and-leaf plots. (332.01.a)	<b>Student Edition:</b> 7, 51 #11, 54-57, 61, 64-68, 76-79, 85-89, 97, 98, 100 #4, 101 #15, 137 #59-#60, 147 #14-#15, 231 #61-#63, 295 #27-#28, 319, 346-347, 418-421, 463, 583, 597 <i>Problem-Solving Strategy</i> 58-59 <i>Spreadsheet Investigation</i> 90-91 <i>WebQuest</i> 3, 103, 193 <b>Teacher Wraparound Edition:</b> A 68, 72; IE 346
7.M.5.1.2	Explain conclusions drawn from tables, charts, and graphs. (332.01.b)	<b>Student Edition:</b> 57 #19, 61 #4, 79 #23, 175 #36-#39, 295 #27-#28, 373 #35, 419 #3, 583 <i>Hands-On Lab</i> 73 <i>Problem-Solving Strategy</i> 202 #6, 253 #7, 339 #11 <i>WebQuest</i> 3, 103, 193 <i>When</i> 319 <b>Teacher Wraparound Edition:</b> A 57; DI 55; PS 99
7.M.5.1.3	Use appropriate vocabulary and notations. (332.01.c)	<b>Student Edition:</b> 65, 69-71, 76, 85-89, 231 #61-#64, 373 #35 <i>Hands-On Lab</i> 73 <i>WebQuest</i> 3, 103, 193 <b>Teacher Wraparound Edition:</b> A 57, 79, 88; B 418; DI 55, 66, 418; PC 52F; PS 99; TNT 419

STANDARDS		PAGE REFERENCES
<b>Goal 5.2: Collect, organize, and display data.</b>		
<b>Objective(s): By the end of Grade 7, the student will be able to:</b>		
7.M.5.2.1	Collect, organize, and display data with appropriate notation in tables, charts and graphs, including scatter plots, broken line graphs, line plots, bar graphs, and stem-and-leaf plots. (332.02.a)	<b>Student Edition:</b> 54-57, 61, 64-67, 76-79, 85-89, 97, 98, 100 #4, 101 #15, 137 #59-#60, 147 #14-#15, 231 #61-#63, 418-421, 463, 597 <i>Problem-Solving Strategy</i> 58-59 <i>Spreadsheet Investigation</i> 90-91 <i>WebQuest</i> 3, 103, 193 <b>Teacher Wraparound Edition:</b> A 68, 72, 79; IE 77
<b>Goal 5.3: Apply simple statistical measurements.</b>		
<b>Objective(s): By the end of Grade 7, the student will be able to:</b>		
7.M.5.3.1	Determine the measures of central tendency – mean, median and mode – with sets of data. (332.03.a)	<b>Student Edition:</b> 69-72, 74 #12, #13, 80-83, 101 #12, 105 <i>Hands-On Lab</i> 73 <i>The Game Zone</i> 75 <b>Teacher Wraparound Edition:</b> DI 69; IE 70
7.M.5.3.2	Discuss distribution of data, including range, frequency, gaps, and clusters. (332.03.b)	<b>Student Edition:</b> 64-68, 71, 72 #22, 74 #7, 79 #28, 95 #20, 97, 100 #5 <b>Teacher Wraparound Edition:</b> IE 65
<b>Goal 5.4: Understand basic concepts of probability.</b>		
<b>Objective(s): By the end of Grade 7, the student will be able to:</b>		
7.M.5.4.1	Predict, perform, and record results of simple probability experiments. (332.04.a)	<b>Student Edition:</b> 368, 370-373, 374-377, 378-380, 405, 407 <i>Problem-Solving Strategy</i> 391-392 <i>The Game Zone</i> 385 <i>WebQuest</i> 285 <b>Teacher Wraparound Edition:</b> B 391; DI 371, 391; IE 371; PS 405
7.M.5.4.2	Recognize equally likely outcomes. (332.04.c)	<b>Student Edition:</b> 370-373, 405 #3, #4, 407 <i>WebQuest</i> 285 <b>Teacher Wraparound Edition:</b> A 401; PS 405

STANDARDS		PAGE REFERENCES
7.M.5.4.3	Explain that probability ranges from impossible to certain (0% to 100%).	<b>Student Edition:</b> 371, 407 <i>WebQuest</i> 285
7.M.5.4.4	Use the language of probability. (332.04.b)	<b>Student Edition:</b> 370, 378, 407 <i>WebQuest</i> 285 <b>Teacher Wraparound Edition:</b> A 380; B 370
<b>Goal 5.5: Make predictions or decisions based on data.</b>		
<b>Objective(s): By the end of Grade 7, the student will be able to:</b>		
7.M.5.5.1	Make predictions based on simple theoretical probabilities. (332.05.a)	<b>Student Edition:</b> 394-396, 401 #27, 407 #16, #17, 604 <b>Teacher Wraparound Edition:</b> IE 394
7.M.5.5.2	Use appropriate vocabulary and notations. (332.05.b)	<b>Student Edition:</b> 393, 394 <b>Teacher Wraparound Edition:</b> A 395; B 393