



# Math Connects

Concepts, Skills, and Problem Solving  
Course 2

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STANDARDS	PAGE REFERENCES
<p><b>ALGEBRAIC REASONING: PATTERNS AND FUNCTIONS</b></p> <p>Patterns and functional relationships can be represented and analyzed using a variety of strategies, tools and technologies.</p>	
<p><b>1.1 Understand and describe patterns and functional relationships.</b></p>	
<p>1. Analyze a variety of patterns (physical phenomena, numeric and geometric patterns, arithmetic sequences) and generalize with algebraic expressions, formulas or equations.</p>	<p><b>Student Edition:</b> 25-29, 43, 44, 57-61, 62, 63-67, 71-74, 75, 76-77, 112-113, 122, 249, 263 #66, 316, 670 <i>Algebra Lab</i> 62 <i>Math Lab</i> 316 <i>Mini Lab</i> 44, 57 <i>Problem-Solving Investigation</i> 112-113 <i>Study Tip</i> 59</p> <p><b>Teacher Wraparound Edition:</b> AE 26-27, 58-59; BDP 112a; ETC 62; FMC 58; PAA 61</p>

STANDARDS	PAGE REFERENCES
<p>2. Identify and describe in writing the independent and dependent variables in a mathematical situation, e.g., age vs. height of children.</p>	<p><b>Student Edition:</b> 62, 63-67, 68-69, 74, 75, 83 #41-#44, 87 #39-#40, 163-167, 172, 316 <i>Algebra Lab</i> 62 <i>Graphing Calculator Lab</i> 68-69 <i>Math Lab</i> 316 <i>Study Tip</i> 64</p> <p><b>Teacher Wraparound Edition:</b> AE 63-64, 164-165; EC 63a; FMC 64, 163, 164; TNT 66, 166</p>
<p>3. Determine when mathematical situations are continuous (distance traveled over time) or discrete sets of points, e.g., weekly sales.</p>	<p><b>Student Edition:</b> 25-29, 57-61, 62, 63-67, 163-167, 172, 316 <i>Math Lab</i> 316 <i>Study Tip</i> 59, 164</p> <p><b>Teacher Wraparound Edition:</b> AE 26-27, 58-59, 63-64, 164-165; FMC 58, 163, 164; PAA 61; SQ 57, 163; TNT 166; TOD 61</p>
<p><b>1.2 Represent and analyze quantitative relationships in a variety of ways.</b></p>	
<p>4. Write expressions, formulas, equations or inequalities using variables to represent mathematical relationships and solve problems.</p>	<p><b>Student Edition:</b> 50-52, 57-61, 95-99, 128-133, 141 #51, 146 #43, 147, 156-161, 170, 173, 174, 674 <i>Mini Lab</i> 57 <i>Reading Math</i> 129 <i>Study Tip</i> 50, 59, 157</p> <p><b>Teacher Wraparound Edition:</b> AE 50, 58-59, 128-130; FMC 129; ML 57; SQ 57, 128; TNT 129, 131; UVC 128a</p>
<p>5. Represent and compare the characteristics of linear and nonlinear relationships using verbal descriptions, e.g., linear –“increases \$1 per month” vs. nonlinear – “doubles every month,” tables, graphs, equations or inequalities (when possible).</p>	<p><b>Student Edition:</b> 33, 63-67, 68-69, 163-167, 293-297, 316, 318 <i>Graphing Calculator Lab</i> 68-69 <i>Math Lab</i> 316 <i>Reading Math</i> 294 <i>Study Tip</i> 64, 164</p> <p><b>Teacher Wraparound Edition:</b> AE 63-64, 164-165, 293-294; EC 63a; FMC 64, 163, 164, 294; PAA 33; SQ 163, 293</p>

STANDARDS	PAGE REFERENCES
<p>6. Examine situations with constant or varying rates of change and know that a constant rate of change describes a linear relationship.</p>	<p><b>Student Edition:</b>            57-61, 62, 63-67, 68-69, 74, 75, 293-297, 303 #47, 309 #47, 316  <i>Algebra Lab</i> 62  <i>Graphing Calculator Lab</i> 68-69  <i>Math Lab</i> 316  <i>Mini Lab</i> 57  <i>Reading Math</i> 294</p> <p><b>Teacher Wraparound Edition:</b>            AE 58-59, 63-64, 293-294; EC 63a; FMC 294; ML 57; SQ 57, 63, 293</p>
<p><b>1.3 Use operations, properties and algebraic symbols to determine equivalence and solve problems.</b></p>	
<p>7. Evaluate and simplify algebraic expressions, equations and formulas using algebraic properties (i.e., commutative, associative, distributive, inverse operations, and the additive and multiplicative identities) and the order of operations.</p>	<p><b>Student Edition:</b>            44-47, 48, 79, 98, 104-106, 107-111, 115-118, 122, 123, 141 #52, 156-161, 293-297, 316  <i>Math Lab</i> 316  <i>Mini Lab</i> 44</p> <p><b>Teacher Wraparound Edition:</b>            AE 45, 104, 109, 115-116; FMC 45; ML 44; TNT 44; VS 107a</p>
<p>8. Solve real world problems using a variety of algebraic methods including tables, graphs, equations and inequalities.</p>	<p><b>Student Edition:</b>            25-29, 43, 45-47, 50-52, 59-61, 63-67, 68-69, 72-74, 75, 112-113, 129-133, 137-141, 143-145, 153-155, 163-167, 168, 172, 293-297, 316  <i>Graphing Calculator Lab</i> 68-69, 168  <i>Math Lab</i> 316</p> <p><b>Teacher Wraparound Edition:</b>            AE 26-27, 45, 59, 63-64, 129-130, 137-138, 143-144, 153, 164-165; BDP 112a; TNT 29</p>
<p>9. Write, model and solve one- and two-step, e.g., <math>2x + 3 = 11</math>, equations using a variety of methods such as tables, concrete models and the Properties of Equality and justify the solution.</p>	<p><b>Student Edition:</b>            44-52, 128-133, 134-135, 136-141, 142-146, 147, 151-155, 156-161, 167 #27-#30, 170-172, 173  <i>Algebra Lab</i> 134-135  <i>Mini Lab</i> 142, 151  <i>Reading Math</i> 129  <i>Study Tip</i> 137, 138, 152</p> <p><b>Teacher Wraparound Edition:</b>            AE 49-50, 128-130, 137-138, 143-144, 151-153, 156-158; FMC 129, 152, 157; T134-135</p>

STANDARDS	PAGE REFERENCES
<b>NUMERICAL AND PROPORTIONAL REASONING</b>	
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.	
<b>2.1 Understand that a variety of numerical representations can be used to describe quantitative relationships.</b>	
<p>1. Compare and order rational numbers, e.g., -2, <math>\frac{3}{8}</math>, -3.15, 0.8, in context and locate them on number lines, scales and coordinate grids.</p>	<p><b>Student Edition:</b> 84-87, 88-92, 215-220, 224, 225 #22-#25, 235 #51-#54, 241 #56, 257 #60-#62, 679, 707 #18 <i>Mini Lab</i> 215</p> <p><b>Teacher Wraparound Edition:</b> AE 84-85, 89-90, 216-217; FMC 216; ML 215; SQ 84, 88, 215; TNT 216</p>
<p>2. Represent rational numbers in equivalent fraction, decimal and percentage forms.</p>	<p><b>Student Edition:</b> 196-200, 201 #19-#25, 202-205, 206-210, 214 #37-#41, 220 #54-#56, 223-224, 225 <i>Reading Math</i> 202 <i>Study Tip</i> 197, 203, 206, 207</p> <p><b>Teacher Wraparound Edition:</b> AE 197-198, 203, 206-208; FMC 197, 203, 207; KL 206a; PAA 200; TNT 197, 199, 208, 209</p>
<p>3. Represent fractions as terminating, e.g., <math>\frac{1}{2} = 0.5</math>, or repeating, e.g., <math>\frac{1}{3} = 0.333\dots</math> decimals and determine when it is appropriate to round the decimal form in context.</p>	<p><b>Student Edition:</b> 196-200, 201 #19-#25, 205 #47-#49, 206-210, 215-220, 223-224, 225 <i>Mini Lab</i> 215 <i>Study Tip</i> 197</p> <p><b>Teacher Wraparound Edition:</b> AE 197-198, 207-208, 216-217; FMC 197; PAA 200; SQ 196, 215; TNT 197, 199, 209, 216</p>
<p>4. Use patterns to compute with and write whole numbers and fractions as powers of whole numbers and vice versa, e.g., <math>2^2 = 4</math>, <math>2^1 = 2</math>, <math>2^0 = 1</math>, <math>2^{-1} = \frac{1}{2}</math>, <math>2^{-2} = \frac{1}{4}</math>.</p>	<p><b>Student Edition:</b> 30-33, 37 #42-#45, 41, #44, 48, 71, 75 #2-#3, 181-184 <i>Mini Lab</i> 181</p> <p><b>Teacher Wraparound Edition:</b> AE 31, 182; PAA 33; SQ 30</p>
<p>5. Understand the relationship between squares and square roots.</p>	<p><b>Student Edition:</b> 34-37, 41 #41-#43, 47 #49, 48, 72, 73 #5-#6, 636-639, 640-645, 648, 661, 663, 668, 701-702, 715 #1 <i>Mini Lab</i> 34, 636</p> <p><b>Teacher Wraparound Edition:</b> AE 35, 637, 641-643; DI 639; FMC 35, 637; ML 34, 636; SQ 34, 636; TNT 35; TOD 639</p>

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6. Read, write, compare and solve problems with whole numbers in scientific notation and vice versa.	<b>Student Edition:</b> 34, LA2-LA5 <i>Study Tip</i> LA3 <b>Teacher Wraparound Edition:</b> AE LA3; BV 34a; CG 34a; DI LA4; FMC LA3; SQ LA2; TNT LA4; TOD LA5
<b>2.2 Use numbers and their properties to compute flexibly and fluently, and to reasonably estimate measures and quantities.</b>	
7. Estimate solutions to problems in context or computations with rational numbers and justify the reasonableness of the estimate in writing.	<b>Student Edition:</b> 230-235, 237, 241 #52-#55, 242-244, 246 #43-#46, 247, 272, 275 #1-#5, 366-367, 589-593, 640-645, 679, 708 #1-#2, <i>Study Tip</i> 231, 232, 641 <b>Teacher Wraparound Edition:</b> AE 231-232, 590; FMC 231, 237, 590; SQ 230
8. Apply the order of operations and algebraic properties; i.e., commutative, associative, distributive, inverse operations, and the additive and multiplicative identities; to write, simplify, e.g., $4(3\frac{1}{2}) = 4(3) + 4(\frac{1}{2}) = 12 + 2 = 14$ , and solve problems, including those with parentheses and exponents.	<b>Student Edition:</b> 38-41, 48, 53-56, 61 #39-#40, 67 #32-#35, 72-74, 75, 96-99, 136-141, 258-263 <i>Study Tip</i> 39, 54, 97 <b>Teacher Wraparound Edition:</b> AE 39, 53-54, 259; EC 38a; FMC 39, 54, 96, 259; SQ 38, 53; TNT 40, 53
9. Apply a variety of strategies to write and solve problems involving addition, subtraction, multiplication and division of positive rational numbers, i.e., whole numbers, fractions and decimals.	<b>Student Edition:</b> 93-94, 95-99, 101-102, 103-106, 107-111, 114-118, 236-241, 242-246, 247, 250, 251-257, 265-270, 272-274, 275 <i>Algebra Lab</i> 93-94, 101-102 <i>Math Lab</i> 250 <i>Mini Lab</i> 107, 114, 265 <i>Study Tip</i> 237 <b>Teacher Wraparound Edition:</b> AE 95-97, 104, 108-109, 115-116, 237-238, 242-244, 253-254, 266-267

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<p>10. Write ratios and proportions to solve problems in context involving rates, scale factors and percentages.</p>	<p><b>Student Edition:</b>            282-286, 287-292, 293-297, 310-315, 317, 320-326, 327, 334-336, 337, 350-354, 540-547  <i>Mini Lab</i> 320, 540  <i>Spreadsheet Lab</i> 327  <i>Study Tip</i> 311, 321, 351</p> <p><b>Teacher Wraparound Edition:</b>            AE 283, 288-289, 293-294, 311-312, 321-322, 350-352, 541-542; FMC 311, 322; PAA 325; TNT 311, 322, 351, 542</p>
<p>11. Find and/or estimate a percentage of a number, including percentages that are more than 100 percent and less than 1 percent using a variety of strategies, including:</p> <ul style="list-style-type: none"> <li>• Number patterns – e.g., find 20 percent of 50.            Solution: 10 percent of 50 = 5, so 20 percent of 50 = 2 (5) = 10</li> <li>• Distributive Property – e.g., find 150 percent of 20.            Solution: 150 percent of 20 = 100 percent of 20 + 50 percent of 20. 20 + 10 = 30</li> <li>• Proportions – e.g., 75 percent of 48            Solution: <math>\frac{75}{100} = \frac{x}{48}</math> <math>x = 36</math></li> <li>• Multiplication of decimal equivalent – e.g., 0.7 percent of 48.            Solution: <math>0.007 (48) = 0.336</math></li> <li>• Estimation – e.g., 22 percent of \$49.95. Estimate 22 percent of \$49.95 <math>\approx</math> 20 percent of 50. 10 percent of 50 = 5, so 20 percent of 50 = 2 (5) = 10, therefore, 22 percent of \$49.95 <math>\approx</math> \$10</li> </ul>	<p><b>Student Edition:</b>            342-343, 344-348, 349, 350-354, 355-360, 361-365, 368, 385-386, 389  <i>Math Lab</i> 342-343  <i>Reading to Solve Problems</i> 349  <i>Study Tip</i> 343, 345, 351, 356, 361, 362</p> <p><b>Teacher Wraparound Edition:</b>            AE 345, 350-352, 355-357, 362-363; FMC 345, 351, 353, 356; SQ 344, 350, 355, 361; TOD 360</p>
<p>12. Solve percent problems in context including what percentage one number is of another, percentage increase and percentage decrease using a variety of strategies, e.g., proportions or equations.</p>	<p><b>Student Edition:</b>            342-343, 344-348, 349, 350-354, 361-365, 368, 369-374, 375-378, 379-382, 383, 385-386, 389  <i>Math Lab</i> 342-343  <i>Mini Lab</i> 369  <i>Reading to Solve Problems</i> 349  <i>Spreadsheet Lab</i> 383  <i>Study Tip</i> 343, 345, 351, 356, 361, 362, 370, 375, 376</p> <p><b>Teacher Wraparound Edition:</b>            AE 345, 350-352, 355-357, 362-363, 370-371, 375-376, 379-380</p>

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13. Compare the magnitude of and compute with whole numbers expressed as positive powers of 10.	<b>Student Edition:</b> LA2-LA5 <i>Study Tip</i> LA3 <b>Teacher Wraparound Edition:</b> AE LA3; DI LA4; FMC LA3; SQ LA2; TNT LA4; TOD LA5
14. Develop and describe strategies for estimating and multiplying whole numbers expressed in scientific notation.	<b>Student Edition:</b> LA2-LA5 <i>Study Tip</i> LA3 <b>Teacher Wraparound Edition:</b> AE LA3; DI LA4; FMC LA3; SQ LA2; TNT LA4; TOD LA5
15. Estimate and solve problems containing whole numbers expressed in expanded notation, powers of 10 and scientific notation.	<b>Student Edition:</b> 25-29, 30-33, 37 #42-#45, 179, 181-184, LA2-LA5 <i>Study Tip</i> LA3 <b>Teacher Wraparound Edition:</b> AE 31, 182, LA3; DI LA4; FMC 26, LA3; PAA 33; SQ 30, LA2; TNT LA4; TOD LA5
16. Develop and describe in writing strategies for addition, subtraction, multiplication and division and solve problems with positive and negative integers using models, number lines, coordinate grids and computational strategies.	<b>Student Edition:</b> 93-94, 95-99, 100, 101-102, 103-106, 107-111, 112-113, 114-118, 121-122, 123 <i>Algebra Lab</i> 93-94, 101-102 <i>Mini Lab</i> 103, 107, 114 <i>Study Tip</i> 94, 108, 115 <b>Teacher Wraparound Edition:</b> AE 95-97, 104, 108-109, 115-116; FMC 108, 115; TNT 97, 104, 107
17. Develop an understanding of absolute value using a number line while solving problems involving distance.	<b>Student Edition:</b> 80-83, 92 #52-#56, 96-99, 671 <i>Reading Math</i> 81 <i>Study Tip</i> 81, 96 <b>Teacher Wraparound Edition:</b> AE 81, 96

STANDARDS	PAGE REFERENCES
<b>GEOMETRY AND MEASUREMENT</b> Shapes and structures can be analyzed, visualized, measured and transformed using a variety of strategies, tools and technologies.	
<b>3.1 Use properties and characteristics of two- and three-dimensional shapes and geometric theorems to describe relationships, communicate ideas and solve problems.</b>	
1. Classify two- and three-dimensional geometric figures based on their properties including relationships of sides and angles and symmetry (line and/or rotational) and apply this information to solve problems.	<b>Student Edition:</b> 524-529, 530-531, 533-538, 539, 546-551, 569, 603-606, 607, 608-612 <i>Graphing Calculator Lab</i> 607 <i>Reading Math</i> 547 <i>Study Tip</i> 604, 609 <b>Teacher Wraparound Edition:</b> AE 525-526, 530, 547-548, 604, 609; FMC 547, 604; PAA 548, 609, 611; TNT 546, 603
2. Identify polygons that have line and/or rotational symmetry.	<b>Student Edition:</b> 558-562, 566, 567 #16, 576 #31, 582 #27, 696, 713 #13 <i>Mini Lab</i> 558 <i>Study Tip</i> 559 <b>Teacher Wraparound Edition:</b> AE 559; ML 558; SQ 558; TNT 561; TOD 562; UT 558a
3. Draw the result of transformations on polygons on coordinate planes including translations, rotations, reflections and dilations (reductions and enlargements).	<b>Student Edition:</b> 546-551, 552, 553-557, 558-562, 566, 567, 695-696 <i>Graphing Calculator Lab</i> 552 <i>Mini Lab</i> 553, 558 <i>Study Tip</i> 554, 559 <b>Teacher Wraparound Edition:</b> AE 547-548, 554-555, 559; FMC 547, 554; ML 553, 558; PAA 557; TNT 550, 554
4. Describe the effect of transformations; i.e., position and orientation from the original figure, size; on polygons that have line and/or rotational symmetry.	<b>Student Edition:</b> 558-562, 566, 567 #16, 576 #31, 582 #27, 696, 713 #13 <i>Mini Lab</i> 558 <i>Study Tip</i> 559 <b>Teacher Wraparound Edition:</b> AE 559; ML 558; SQ 558; TNT 561; TOD 562; UT 558a

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<p>5. Compare and describe in writing the relationships (including congruence, equality, scale) between the angles, sides, perimeter and area of congruent and similar geometric shapes.</p>	<p><b>Student Edition:</b>            540-545, 551 #36, 553-557, 559, 565, 567 #10-#12, 695, LA14-LA17  <i>Mini Lab</i> 540  <i>Study Tip</i> 559, LA15  <b>Teacher Wraparound Edition:</b>            AE 541-542, LA15; FMC 541; ML 540; TNT 542, 544, LA16; TOD 545; LA17</p>
<p><b>3.2 Use spatial reasoning, location and geometric relationships to solve problems.</b></p>	
<p>6. Identify and/or draw two-dimensional representations of three dimensional geometric solids using nets, cross-sections, front, side and top views to solve problems.</p>	<p><b>Student Edition:</b>            600-601, 607, 608-612, 618 #31, 629, 631, 646-647  <i>Geometry Lab</i> 607  <i>Problem-Solving Investigation</i> 646-647  <i>Study Tip</i> 601, 608  <b>Teacher Wraparound Edition:</b>            AE 609, 646; DI 646; MM 646; PAA 609; SQ 608, 646; TNT 601; TT 600</p>
<p>7. Use two-dimensional representations of rectangular prisms, pyramids and cylinders to determine surface area.</p>	<p><b>Student Edition:</b>            600-601, 606 #22, 646-647, 649-653, 654-655, 656-659, 661-662, 663  <i>Measurement Lab</i> 600-601, 654-655  <i>Mini Lab</i> 649, 656  <i>Problem-Solving Investigation</i> 646-647  <i>Study Tip</i> 601, 650  <b>Teacher Wraparound Edition:</b>            AE 646, 650-651, 657; FMC 650; ML 649, 656; MM 646; SQ 646; TNT 601</p>
<p><b>3.3 Develop and apply units, systems, formulas and appropriate tools to estimate and measure.</b></p>	
<p>8. Use formulas to solve problems involving perimeters and areas of polygons and circles.</p>	<p><b>Student Edition:</b>            572-576, 577, 578-582, 583, 584-588, 589-593, 601, 627-628, 631  <i>Measurement Lab</i> 577, 583  <i>Mini Lab</i> 572, 578, 589  <i>Study Tip</i> 573, 585, 590  <b>Teacher Wraparound Edition:</b>            AE 572-573, 579-580, 585, 590; FMC 573, 579, 585; ML 572, 578, 579; PAA 576; SQ 572, 578, 584, 589</p>

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<p>9. Develop and use formulas to determine volumes of geometric solids (rectangular prisms and cylinders).</p>	<p><b>Student Edition:</b>  613-618, 619-623, 624-625, 630, 631, 654-655  <i>Graphing Calculator Lab</i> 624-625  <i>Measurement Lab</i> 654-655  <i>Mini Lab</i> 613, 619  <i>Study Tip</i> 615, 620</p> <p><b>Teacher Wraparound Edition:</b>  AE 614-615, 620; DI 622; FMC 620; ML 613, 619;  PAA 618; TNT 614, 615; TOD 623; TT 654</p>
<p>10. Use estimation and measurement strategies to solve problems involving area of irregular polygons and volumes of irregular solids and justify solutions in writing.</p>	<p><b>Student Edition:</b>  594-595, 596-599, 602, 606 #22, 628, 631, 699, 714 #7  <i>Problem-Solving Investigation</i> 594-595</p> <p><b>Teacher Wraparound Edition:</b>  AE 594, 597; FMC 597; MA 596a; S 594; SQ 594, 596; TNT 597; TOD 599</p>
<p>11. Write and solve problems in context involving conversions of customary or metric units and units of time.</p>	<p><b>Student Edition:</b>  298-303, 304-309, 315 #51-#54, 335, 337, 682-683  <i>Mini Lab</i> 304  <i>Study Tip</i> 299, 305, 306</p> <p><b>Teacher Wraparound Edition:</b>  AE 299-300, 305-307; FMC 299, 305; ML 304;  PAA 302; SQ 298, 304; TNT 305; TOD 303</p>
<p><b>Working with Data: Probability and Statistics</b>  Data can be analyzed to make informed decisions using a variety of strategies, tools and technologies.</p>	
<p><b>4.1 Collect, organize and display data using appropriate statistical and graphical methods.</b></p>	
<p>1. Formulate questions and design studies; e.g., surveys, experiments, research using published sources and the Internet; to collect and analyze data.</p>	<p><b>Student Edition:</b>  400 #30, 434-437, 438-443, 444-449, 453-454, 455, 464 #37-#38  <i>Study Tip</i> 440, 445</p> <p><b>Teacher Wraparound Edition:</b>  AE 403, 435, 439-440, 445-446; FMC 435, 439, 445; PAA 437; SQ 434, 438, 444; TNT 440, 444, 448</p>

STANDARDS	PAGE REFERENCES
<p>2. Organize and display data using appropriate graphical representation such as, tables and charts, line, bar and circle graphs, Venn diagrams, stem and leaf plots, scatter plots, histograms.</p>	<p><b>Student Edition:</b>  396-401, 410-414, 415-421, 422, 423, 424-425, 426-431, 432-433, 434-437, 451-453, 518-523  <i>Problem-Solving Investigation</i> 424-425  <i>Spreadsheet Lab</i> 422, 432-433  <i>Study Tip</i> 416, 417</p> <p><b>Teacher Wraparound Edition:</b>  AE 397-398, 411, 416-417, 424, 427-428, 435, 519-520; FMC 427; TNT 421, 428</p>
<p><b>4.2 Analyze data sets to form hypotheses and make predictions.</b></p>	
<p>3. Make and defend in writing predictions based on patterns and trends from the graphical representations.</p>	<p><b>Student Edition:</b>  396-401, 410-414, 415-421, 422, 423, 424-425, 426-431, 432-433, 434-437, 451-453  <i>Problem-Solving Investigation</i> 424-425  <i>Spreadsheet Lab</i> 432-433  <i>Study Tip</i> 397, 416, 417</p> <p><b>Teacher Wraparound Edition:</b>  AE 397-398, 411, 416-417, 424, 427-428, 435; FMC 427; TNT 428</p>
<p>4. Find, use and interpret measures of central tendency and spread, including mean, median, mode, range and outliers.</p>	<p><b>Student Edition:</b>  43 #26-#27, 396-401, 402-408, 409, 410-414, 421 #33-#34, 423, 451, 455  <i>Graphing Calculator Lab</i> 409  <i>Mini Lab</i> 402  <i>Study Tip</i> 397, 405  <i>Test-Taking Tip</i> 404</p> <p><b>Teacher Wraparound Edition:</b>  AE 397-398, 403-405, 411; FMC 397, 403, 404; SQ 402; T 396; TNT 411</p>
<p>5. Compare two sets of data based on their spread and measures of central tendency.</p>	<p><b>Student Edition:</b>  396-401, 402-408, 409, 410-414, 421 #33-#34, 423, 451, 455  <i>Graphing Calculator Lab</i> 409  <i>Study Tip</i> 397, 405  <i>Test-Taking Tip</i> 404</p> <p><b>Teacher Wraparound Edition:</b>  AE 397-398, 403-405, 411; FMC 397, 403, 404; T 396; TNT 411</p>

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<b>4.3 Understand and apply basic concepts of probability.</b>	
<p>6. Identifying all possible outcomes using models, tree diagrams, tables and/or organized lists to determine theoretical probabilities.</p>	<p><b>Student Edition:</b>            460-464, 465-470, 471-474, 475-478, 479, 480-483, 484-485, 499-501, 503  <i>Mini Lab</i> 465, 475  <i>Problem-Solving Tip</i> 484-485  <i>Study Tip</i> 467, 472  <i>Test-Taking Tip</i> 466</p> <p><b>Teacher Wraparound Edition:</b>            AE 461-462, 466-467, 471-472, 476, 481, 484;            FMC 472, 476; PAA 474, 478; TNT 465, 467, 472</p>
<p>7. Perform experiments to determine experimental probabilities.</p>	<p><b>Student Edition:</b>            486-490, 491, 497 #40, 502, 503 #15  <i>Mini Lab</i> 486  <i>Probability Lab</i> 491  <i>Study Tip</i> 487</p> <p><b>Teacher Wraparound Edition:</b>            A 491; AE 487-488; DI 491; FCA 491; FMC 487;            NTM 490; PAA 490; SQ 486; TNT 486</p>
<p>8. Compare and contrast experimental probability results to theoretical probabilities in writing.</p>	<p><b>Student Edition:</b>            486-490, 491, 502  <i>Mini Lab</i> 486  <i>Probability Lab</i> 491  <i>Study Tip</i> 487</p> <p><b>Teacher Wraparound Edition:</b>            A 491; AE 487-488; DI 491; FCA 491; FMC 487;            NTM 490; PAA 490; SQ 486; TNT 486</p>
<p>9. Solve probability problems in familiar contexts including simple events (flipping a coin) and compound events (flipping a coin and rolling a number cube).</p>	<p><b>Student Edition:</b>            460-464, 467-470, 484-485, 486-490, 491, 492-497, 499-502, 503, 504-505  <i>Probability Lab</i> 491  <i>Problem-Solving Investigation</i> 484-485  <i>Study Tip</i> 462, 487, 493, 494, 495</p> <p><b>Teacher Wraparound Edition:</b>            AE 461-462, 467, 484, 487-488, 493-494; SQ 460, 484, 492</p>