



Algebra

Concepts and Applications

© 2008

STANDARDS	PAGE REFERENCES
M11.A Numbers and Operations	
ASSESSMENT ANCHOR	
M11.A.1 Demonstrate an understanding of numbers, ways of representing numbers, relationships among numbers and number systems.	
M11.A.1.1 Represent and/or use numbers in equivalent forms (e.g., integers, fractions, decimals, percents, square roots, exponents and scientific notation). <i>Reference: 2.1.8.A, 2.1.8.B, 2.1.11.A</i>	
M11.A.1.1.1 Find the square root of an integer to the nearest tenth using either a calculator or estimation.	Student Edition: 357-361, 362-365, 366-371, 375-376, 377, 378-379, 387, 600-605, 606-611, 709 <i>Hands-On Algebra</i> 362 Teacher Wraparound Edition: 5MC 362, 366, 382, 606; ICE 357-359, 363, 367, 601-603, 607-608
M11.A.1.1.2 Express numbers and/or simplify expressions using scientific notation (including numbers less than 1).	Student Edition: 352-356, 361, 375, 377, 387 #66, 425 #67, 708, 735 #2 Teacher Wraparound Edition: 5MC 357, 382 #3; EA 355; ICE 353-354; ML 352; OEA 356; RA 354; TT 352, 353, 354

STANDARDS	PAGE REFERENCES
<p>M11.A.1.1.3 Simplify square roots. (e.g., $\sqrt{24} = 2\sqrt{6}$)</p>	<p>Student Edition: 614-619, 620-623, 629, 631, 633, 643, 680-681, 720-721</p> <p>Teacher Wraparound Edition: 5MC 620, 624; CTBQ 633; EA 622; EC 619, 623; ICE 615-617, 621</p>
<p>M11.A.1.2 Apply number theory concepts to show relationships between real numbers in problem-solving settings. <i>Reference: 2.1.8.E</i></p>	
<p>M11.A.1.2.1 Find the Greatest Common Factor (GCF) and/or the Least Common Multiple (LCM) for sets of monomials.</p>	<p>Student Edition: 137 #5, 420-425, 428-433, 434-439, 440-444, 450-452, 453, 662-667, 668-673, 678, 679, 711-713</p> <p>Teacher Wraparound Edition: 5MC 428, 445 #5, 668; EC 667; ICE 423, 429-431, 437, 663-665; ML 662</p>
<p>M11.A.1.3 Estimate the value of an irrational number. <i>Reference: 2.2.8.C</i></p>	
<p>M11.A.1.3.1 Locate/identify irrational numbers at the approximate location on a number line.</p>	<p>Student Edition: 362-365, 468-473, 600-605, 673 #50, 720 <i>Hands-On Algebra</i> 362</p> <p>Teacher Wraparound Edition: ICE 469 Ex 3, 602</p>
<p>M11.A.1.3.2 Compare and/or order any real numbers (rational and irrational may be mixed).</p>	<p>Student Edition: 52-57, 94-99, 132, 135, 159, 315 #49, 600-605, 691, 696</p> <p>Teacher Wraparound Edition: 5MC 58, 100; EA 56, 97; EC 57, 99, 345; ICE 53-55, 95-96, 601-602; OEA 57, 99</p>
<p>ASSESSMENT ANCHOR</p>	
<p>M11.A.2 Understand the meanings of operations, use operations and understand how they relate to each other.</p>	
<p>M11.A.2.1 Apply ratio and/or proportion in problem-solving situations. <i>Reference: 2.2.11.A, 2.8.11.P</i></p>	
<p>M11.A.2.1.1 Solve problems using operations with rational numbers including rates and percents (single and multi-step and multiple procedure operations) (e.g., distance, work and mixture problems, etc.).</p>	<p>Student Edition: 48-49, 136-137, 140-145, 154-159, 160-164, 165-170, 171-175, 180-181, 270-275, 278, 279, 416-417, 552-553, 563-565, 567-571, 573-577, 594, 668-673, 674-675, 699-700, 731</p>

STANDARDS	PAGE REFERENCES
<p>M11.A.2.1.2 Solve problems using direct and inverse proportions.</p>	<p>Student Edition: 188-193, 194-197, 198-203, 204-209, 212-217, 264-269, 270-275, 278, 279 <i>Graphing Calculator Exploration 272</i></p> <p>Teacher Wraparound Edition: 5MC 194, 198, 270; ICE 189-191, 195, 199-200, 205-207, 212-215, 265-267, 271-273</p>
<p>M11.A.2.1.3 Identify and/or use proportional relationships in problem-solving settings.</p>	<p>Student Edition: 189-193, 194-197, 198-203, 204-209, 212-217, 264-269, 270-275, 571 #50, 635 #4, 649 #54, 740</p> <p>Teacher Wraparound Edition: 5MC 194, 198; ICE 189-191, 195, 199-200, 205-207, 212-215, 265-267, 272</p>
<p>M11.A.2.2 Use exponents, roots and/or absolute value to solve problems. <i>Reference: 2.1.11.A</i></p>	
<p>M11.A.2.2.1 Simplify/evaluate expressions involving positive and negative exponents, roots and/or absolute value (may contain all types of real numbers - exponents should not exceed power of 10).</p>	<p>Student Edition: 55-56, 66-67, 243 #31-#32, 336-340, 341-345, 347-351, 356, 357-361, 374-375, 376, 599, 694, 707-708, 614-619, 620-623, 631, 633</p> <p>Teacher Wraparound Edition: ICE 337-338, 342-344, 348-349, 357-359</p>
<p>M11.A.2.2.2 Simplify/evaluate expressions involving multiplying with exponents (e.g., $x^6 * x^7 = x^{13}$), powers of powers (e.g., $(x^6)^7 = x^{42}$) and powers of products ($(2x^2)^3 = 8x^6$ (positive exponents only)).</p>	<p>Student Edition: 336-340, 341-345, 351, 356, 375, 376, 381, 707-708 <i>Reading Algebra 341</i></p> <p>Teacher Wraparound Edition: 5MC 341, 347, 352, 382; EC 340, 345; ICE 337-338, 342-344, 348-349; ML 341</p>
<p>ASSESSMENT ANCHOR</p>	
<p>M11.A.3 Compute accurately and fluently and make reasonable estimates.</p>	
<p>M11.A.3.1 Apply the order of operations in computation and in problem-solving situations. <i>Reference: 2.2.8.A</i></p>	
<p>M11.A.3.1.1 Simplify/evaluate expressions using the order of operations to solve problems (any rational numbers may be used).</p>	<p>Student Edition: 8-13, 14-18, 26, 45, 47, 63 #45, 103 #42, 112-116, 176-179, 692</p> <p>Teacher Wraparound Edition: 5MC 14, 19; CTBQ 47; EA 11; EC 13, 18, 23; ICE 9-10, 15, 113-114; TT 8, 9</p>

STANDARDS	PAGE REFERENCES
<p>M11.A.3.2 Use estimation strategies in problem-solving situations. <i>Reference: 2.2.11.B, 2.2.11.D</i></p>	
<p>M11.A.3.2.1 Use estimation to solve problems.</p>	<p>Student Edition: 208 #27, 340 #43, 362-365, 468-473, 559 #36, 599, 630, 673 #50, 681 #8, 714, 720 Teacher Wraparound Edition: 5MC 362, 366; EA 364; EC 365, 473; ICE 363, 469-470; OEA 365; RA 364; TT 363</p>
<p>M11.B Measurement</p>	
<p>ASSESSMENT ANCHOR</p>	
<p>M11.B.1 Demonstrate an understanding of measurable attributes of objects and figures, and the units, systems and processes of measurement. Not assessed at grade 11.</p>	
<p>ASSESSMENT ANCHOR</p>	
<p>M11.B.2 Apply appropriate techniques, tools and formulas to determine measurements.</p>	
<p>M11.B.2.1 Use and/or compare measurements of angles. <i>Reference: 2.3.11.A, 2.3.11.B</i></p>	
<p>M11.B.2.1.1 Measure and/or compare angles in degrees (up to 360°) (protractor must be provided or drawn).</p>	<p>Student Edition: 179 #34, 200-203, 736 #10, 739 #14 Teacher Wraparound Edition: EC 203; ICE 200</p>
<p>M11.B.2.2 Use and/or develop procedures to determine or describe measures of perimeter, circumference, area, surface area and/or volume. (May require conversions within the same system.) <i>Reference: 2.3.8.A, 2.3.8.D</i></p>	
<p>M11.B.2.2.1 Calculate the surface area of prisms, cylinders, cones, pyramids and/or spheres. Formulas are provided on the reference sheet.</p>	<p>Student Edition: 25, 387 #56, 749 #6 <i>Hands-On Algebra</i> 25 Teacher Wraparound Edition: HOA 25</p>
<p>M11.B.2.2.2 Calculate the volume of prisms, cylinders, cones, pyramids and/or spheres. Formulas are provided on the reference sheet.</p>	<p>Student Edition: 15 Ex 4, 387 #56, 402-404, 444 #43, 597, 728 #4, 736 #14, 744, 749 #6 Teacher Wraparound Edition: 5MC 19, 405 #5; ICE 15</p>
<p>M11.B.2.2.3 Estimate area, perimeter or circumference of an irregular figure.</p>	<p>Student Edition: 18 #26, 365 #37</p>

STANDARDS	PAGE REFERENCES
<p>M11.B.2.2.4 Find the measurement of a missing length given the perimeter, circumference, area or volume.</p>	<p>Student Edition: 163 #10, 164 #38, 169 #37, 170, 177-178, 183 #25, 247 Ex 5, 248 #11, 261 #51, 279 #25, 360 #42, 361 #43, 376 #59, 391 Ex 7, 426-427 <i>Investigation</i> 426-427 Teacher Wraparound Edition: 5MC 362 #4; ICE 177, 247, 391</p>
<p>M11.B.2.3 Describe how a change in one dimension of a figure (2 or 3 dimensional) affects other measurements of that figure. <i>Reference: 2.3.8.E</i></p>	
<p>M11.B.2.3.1 Describe how a change in the linear dimension of a figure affects its perimeter, circumference, area or volume.</p> <ul style="list-style-type: none"> • How does changing the length of the radius of a circle affect the circumference of the circle? • How does changing the length of the edge of a cube affect the volume of the cube? • How does changing the length of the base of a triangle affect the area of the triangle? 	<p>Student Edition: 338-339, 410-411, 597 #5, 749 #6 <i>Graphing Calculator Exploration</i> 338-339 <i>Investigation</i> 410-411 Teacher Wraparound Edition: ML 410; TT 411</p>
<p>M11.C Geometry</p>	
<p>ASSESSMENT ANCHOR</p>	
<p>M11.C.1 Analyze characteristics and properties of two- and three-dimensional geometric shapes and demonstrate understanding of geometric relationships.</p>	
<p>M11.C.1.1 Identify and/or use parts of circles and segments associated with circles. <i>Reference: 2.9.11.F</i></p>	
<p>M11.C.1.1.1 Identify and/or use the properties of a radius, diameter and/or tangent of a circle (given numbers should be whole).</p>	<p>Student Edition: 340 #43, 364 #35, 449 #52, 596-597, 749 #8 Teacher Wraparound Edition: 5MC 535 #5</p>
<p>M11.C.1.1.2 Identify and/or use the properties of arcs, semicircles, inscribed angles and/or central angles.</p>	<p>Student Edition: 200-203, 597 Teacher Wraparound Edition: EC 203; ICE 200</p>
<p>M11.C.1.2 Recognize and/or apply properties of angles, triangles and quadrilaterals. <i>Reference: 2.9.8.D, 2.9.11.C</i></p>	
<p>M11.C.1.2.1 Identify and/or use properties of triangles (e.g., medians, altitudes, angle bisectors, side/angle relationships, Triangle Inequality Theorem).</p>	<p>Student Edition: 370, 736 #10-#11, 739 #14 Teacher Wraparound Edition: TT 370</p>

STANDARDS	PAGE REFERENCES
<p>M11.C.1.2.2 Identify and/or use properties of quadrilaterals (e.g., parallel sides, diagonals, bisectors, congruent sides/angles and supplementary angles).</p>	<p>Student Edition: 323 Ex 2, 327, 370 #33, 372-373, 444 #49, 610 #32, 736 #9 <i>Investigation</i> 372-373 Teacher Wraparound Edition: ICE 323; ML 620</p>
<p>M11.C.1.2.3 Identify and/or use properties of isosceles and equilateral triangles.</p>	<p>Student Edition: 371 #35, 610 #29</p>
<p>M11.C.1.3 Use properties of congruence, correspondence and similarity in problem-solving settings involving two- and three-dimensional figures. <i>Reference: 2.9.11.B</i></p>	
<p>M11.C.1.3.1 Identify and/or use properties of congruent and similar polygons or solids.</p>	<p>Student Edition: 63 #37, 69 #61, 77-79, 88 #62, 736 #10-#11, 740 #15, 743 Teacher Wraparound Edition: EC 79; ICE 77</p>
<p>M11.C.1.4 Solve problems involving right triangles using the Pythagorean Theorem. <i>Reference: 2.10.11.B</i></p>	
<p>M11.C.1.4.1 Find the measure of a side of a right triangle using the Pythagorean Theorem (Pythagorean Theorem included on the reference sheet).</p>	<p>Student Edition: 366-371, 372-373, 376, 377, 378-379, 606, 680-681, 709, 736 #11 <i>Hands-On Algebra</i> 606 <i>Investigation</i> 372-373 Teacher Wraparound Edition: 5MC 382 #5; EA 369; EC 371; HOA 607; ICE 367-368; ML 366; OEA 371; RA 369; TT 367</p>

STANDARDS	PAGE REFERENCES
ASSESSMENT ANCHOR	
M11.C.2 Identify and/or apply concepts of transformations or symmetry. Not assessed at grade 11.	
ASSESSMENT ANCHOR	
M11.C.3 Locate points or describe relationships using the coordinate plane.	
M11.C.3.1 Solve problems using analytic geometry. <i>Reference: 2.9.11.G</i>	
M11.C.3.1.1 Calculate the distance and/or midpoint between 2 points on a number line or on a coordinate plane (formula provided on the reference sheet).	Student Edition: 463 #51, 606-611, 612-613, 619 #43, 623, 643 #73, 720, 730 <i>Hands-On Algebra</i> 606 <i>Investigation</i> 612-613 Teacher Wraparound Edition: 5MC 614, 638 #2; EC 611; HOA 607; ICE 607-608; ML 612; OEA 611; RA 609; TT 613
M11.C.3.1.2 Relate slope to perpendicularity and/or parallelism (limit to linear algebraic expressions; slope formula provided on the reference sheet).	Student Edition: 322-327, 330, 331, 387 #69, 508 #50 <i>Hands-On Algebra</i> 324 Teacher Wraparound Edition: 5MC 336 #4; EA 325; HOA 324; ICE 323-325; ML 322; RA 325; TT 324, 325
M11.D Algebraic Concepts	
ASSESSMENT ANCHOR	
M11.D.1 Demonstrate an understanding of patterns, relations and functions.	
M11.D.1.1 Analyze and/or use patterns or relations. <i>Reference: 2.8.11.Q, 2.8.11.A, 2.8.11.O</i>	
M11.D.1.1.1 Analyze a set of data for the existence of a pattern and represent the pattern algebraically and/or graphically.	Student Edition: 30-31, 110-111, 284-289, 338-339, 458-463, 464-467, 468-473, 489-493, 497, 705, 748 #4 <i>Graphing Calculator Exploration</i> 338-339 <i>Hands-On Algebra</i> 489 <i>Investigation</i> 30-31, 110-111 Teacher Wraparound Edition: 5MC 464, 468; ICE 285-286, 459, 464-467

STANDARDS	PAGE REFERENCES
<p>M11.D.1.1.2 Determine if a relation is a function given a set of points or a graph.</p>	<p>Student Edition: 256-261, 262-263, 277, 279 #11-#12, 289 #32-#33, 356 #61, 425 #68 <i>Investigation</i> 262-263 Teacher Wraparound Edition: 5MC 264; EC 261; ICE 257-259; OEA 261</p>
<p>M11.D.1.1.3 Identify the domain, range or inverse of a relation (may be presented as ordered pairs or a table).</p>	<p>Student Edition: 238-243, 244-249, 255, 256-261, 276-277, 279, 289 #29, 304-307, 308-309, 703, 726 #1 <i>Investigation</i> 308-309 Teacher Wraparound Edition: 5MC 244, 250; EC 243, 284; ICE 239-240, 245-247, 257-258, 304</p>
<p>ASSESSMENT ANCHOR</p> <p>M11.D.2 Represent and/or analyze mathematical situations using numbers, symbols, words, tables and/or graphs.</p> <p>M11.D.2.1 Write, solve and/or graph linear equations and inequalities using various methods. <i>Reference: 2.8.8.F, 2.8.11.D, 2.8.11.H, 2.8.11.J, 2.8.11.N, 2.8.11.L, 2.8.11.K</i></p>	
<p>M11.D.2.1.1 Solve compound inequalities and/or graph their solution sets on a number line (may include absolute value inequalities).</p>	<p>Student Edition: 524-529, 530-534, 539, 543-544, 545, 553, 565 #36-#37, 717, 729 Teacher Wraparound Edition: 5MC 530, 535; CTBQ 545; EA 527, 533; EC 529, 534; ICE 525-526, 531-532; OEA 529; RA 526</p>
<p>M11.D.2.1.2 Identify or graph functions, linear equations or linear inequalities on a coordinate plane.</p>	<p>Student Edition: 250-255, 264-269, 270-275, 277, 279, 290-295, 308-309, 310-315, 316-321, 322-327, 328-330, 331, 404 #62-#64, 535-539, 543, 586-590, 594, 705-707 <i>Graphing Calculator Exploration</i> 272, 317 Teacher Wraparound Edition: 5MC 256, 296, 336</p>
<p>M11.D.2.1.3 Write, solve and/or apply a linear equation (including problem situations).</p>	<p>Student Edition: 244-249, 250-255, 264-269, 290-295, 296-301, 308-309, 310-315, 316-321, 322-327, 328-330, 331, 338-339, 705-707, 727 <i>Graphing Calculator Exploration</i> 338-339 Teacher Wraparound Edition: ICE 251-253, 265-267, 291-292, 297-298, 311-313, 317-318</p>

STANDARDS	PAGE REFERENCES
<p>M11.D.2.1.4 Write and/or solve systems of equations using graphing, substitution and/or elimination (limit systems to 2 equations).</p>	<p>Student Edition: 550-553, 554-559, 560-565, 566-571, 572-577, 590, 592-594, 595, 634-635, 718-719, 730 <i>Graphing Calculator Exploration</i> 551</p> <p>Teacher Wraparound Edition: 5MC 554, 560, 566, 572, 600; ICE 550-552, 555-557, 561-563, 567-569, 572-575</p>
<p>M11.D.2.1.5 Solve quadratic equations using factoring (integers only – not including completing the square or the Quadratic Formula).</p>	<p>Student Edition: 474-477, 482, 487, 497, 499, 714</p> <p>Teacher Wraparound Edition: 5MC 478, 504 #3; EA 476; EC 477; ICE 475-476; OEA 477; RA 475</p>
<p>M11.D.2.2 Simplify expressions involving polynomials. <i>Reference: 2.8.11.S</i></p>	
<p>M11.D.2.2.1 Add, subtract and/or multiply polynomial expressions (express answers in simplest form – nothing larger than a binomial multiplied by a trinomial).</p>	<p>Student Edition: 388-393, 394-398, 399-404, 405-409, 413-414, 415, 425, 501, 710-711, 728 <i>Hands-On Algebra</i> 388-389, 400</p> <p>Teacher Wraparound Edition: 5MC 394, 399, 405, 420; ICE 389-391, 394-396, 400-402, 406-407</p>
<p>M11.D.2.2.2 Factor algebraic expressions, including difference of squares and trinomials (trinomials limited to the form ax^2+bx+c where a is not equal to 0).</p>	<p>Student Edition: 420-425, 428-433, 434-439, 440-444, 445-449, 450-452, 453, 457, 644-649, 650-655, 711-713, 728 <i>Hands-On Algebra</i> 428, 434-435, 440</p> <p>Teacher Wraparound Edition: ICE 421-423, 429-431, 436-437, 441-442, 446-447</p>
<p>M11.D.2.2.3 Simplify algebraic fractions.</p>	<p>Student Edition: 341-345, 347-351, 356, 375, 376 #9 and #11, 419, 430-433, 501, 638-643, 644-649, 655, 656-661, 662-667, 676-678, 679, 708, 722-723, 731</p> <p>Teacher Wraparound Edition: ICE 343, 348-349, 640-641, 645-647</p>

STANDARDS	PAGE REFERENCES
ASSESSMENT ANCHOR	
M11.D.3 Analyze change in various contexts.	
M11.D.3.1 Describe and/or determine change. <i>Reference: 2.8.8.J, 2.11.8.B</i>	
M11.D.3.1.1 Identify, describe and/or use constant or varying rates of change.	Student Edition: 60 Ex 8, 61 #10, 62 #35, 264-269, 270-275, 284-289, 454-455 Teacher Wraparound Edition: EA 268, 287; EC 269; ICE 60 Ex 8, 265-267, 271-273, 285-286; ML 264, 270, 284; TT 265, 266, 270, 285
M11.D.3.1.2 Determine how a change in one variable relates to a change in a second variable (e.g., $y=4/x$, if x doubles, what happens to y ?).	Student Edition: 270, 284-289 Teacher Wraparound Edition: ML 270; TT 292
M11.D.3.2 Compute and/or use the slope of a line. <i>Reference: 2.8.11.J, 2.8.11.L</i>	
M11.D.3.2.1 Apply the formula for the slope of a line to solve problems (formula given on reference sheet).	Student Edition: 284-289, 290-295, 296-301, 322-327, 705 Teacher Wraparound Edition: 5MC 290, 296, 302, 336; EA 287; EC 289, 301; ICE 285-286, 291-292, 297-298, 323-325; ML 284, 290; OEA 289; TT 285, 286, 287
M11.D.3.2.2 Given the graph of the line, 2 points on the line, or the slope and a point on a line, write or identify the linear equation in point-slope, standard and/or slope-intercept form.	Student Edition: 250-255, 290-295, 296-301, 308-309, 310-315, 316-321, 409 #39-#41, 705-707 <i>Investigation</i> 308-309 Teacher Wraparound Edition: 5MC 296, 336; EC 301; ICE 251, 291-292, 297-298, 311-313; ML 290; OEA 295
M11.D.3.2.3 Compute the slope and/or y-intercept represented by a linear equation or graph.	Student Edition: 284-289, 290-295, 296-301, 308-309, 310-315, 316-321, 322-327, 739 #6 <i>Investigation</i> 308-309 Teacher Wraparound Edition: 5MC 290, 296, 302, 322, 336; EC 289, 301; ICE 285-286, 291-292, 297-298, 311-313, 317-318

STANDARDS	PAGE REFERENCES
ASSESSMENT ANCHOR	
M11.D.4 Describe or use models to represent quantitative relationships.	
M11.D.4.1 Interpret and/or use linear, quadratic and/or exponential functions and their equations, graphs or tables. <i>Reference: 2.8.11.K, 2.8.11.Q</i>	
M11.D.4.1.1 Match the graph of a given function to its table or equation.	Student Edition: 264-269, 270-275, 277, 290-295, 310-315, 316-321, 458-463, 464-467, 468-473, 475 Ex 2, 489-493, 513 #50, 553 #32, 635 #5, 655 #42, 681 #5, 713 <i>Graphing Calculator Exploration</i> 272, 491 Teacher Wraparound Edition: 5MC 468, 470, 496; ICE 459, 490
M11.E Data Analysis and Probability	
ASSESSMENT ANCHOR	
M11.E.1 Formulate or answer questions that can be addressed with data and/or organize, display, interpret or analyze data.	
M11.E.1.1 Appropriately display and/or use data in problem-solving settings. <i>Reference: 2.6.11.A, 2.6.8.E</i>	
M11.E.1.1.1 Create and/or use appropriate graphical representations of data, including box-and-whisker plots, stem-and-leaf plots or scatter plots.	Student Edition: 32-37, 38-43, 46, 47, 90-91, 104-109, 210-211, 302-308, 694, 706, 745-747, 749 #9 Teacher Wraparound Edition: 5MC 38, 52; EA 42, 305; EC 43; ICE 33-34, 39-41, 105, 303-304; OEA 43, 307
M11.E.1.1.2 Analyze data and/or answer questions based on displayed data (box-and-whisker plots, stem-and-leaf plots or scatter plots).	Student Edition: 32-37, 38-43, 46, 47, 90-91, 104-109, 210-211, 302-308, 694, 706, 745-747, 749 #9 Teacher Wraparound Edition: 5MC 38, 52; EA 43, 305; EC 43; ICE 39-41, 303-304; OEA 43, 307; TT 40, 211

STANDARDS	PAGE REFERENCES
ASSESSMENT ANCHOR	
M11.E.2 Select and/or use appropriate statistical methods to analyze data.	
M11.E.2.1 Use measures of central tendency to describe a set of data. <i>Reference: 2.6.8.A, 2.6.11.A</i>	
M11.E.2.1.1 Calculate or select the appropriate measure of central tendency (mean, mode or median) of a set of data given or represented on a table, line plot or stem-and-leaf plot.	Student Edition: 104-109, 133, 135 #13, 158, 184-185, 210-211, 697, 736 #14 <i>Graphing Calculator Exploration</i> 105 <i>Investigation</i> 210-211 Teacher Wraparound Edition: 5MC 112; EA 107; EC 109; ICE 105-106; ML 104; OEA 109; RA 107; TT 105
M11.E.2.1.2 Calculate and/or interpret the range, quartiles and interquartile range of data.	Student Edition: 104-109, 133, 135 #13, 181-185, 210-211, 697 <i>Graphing Calculator Exploration</i> 105 <i>Investigation</i> 210-211 Teacher Wraparound Edition: 5MC 112; EC 109; ICE 105-106; ML 104; OEA 109; RA 107
M11.E.2.1.3 Describe how outliers affect measures of central tendency.	Student Edition: 104-109, 210-211 <i>Graphing Calculator Exploration</i> 105 <i>Investigation</i> 210-211
ASSESSMENT ANCHOR	
M11.E.3 Understand and/or apply basic concepts of probability or outcomes.	
M11.E.3.1 Apply probability and/or odds to practical situations. <i>Reference: 2.7.11.A, 2.7.11.E</i>	
M11.E.3.1.1 Find probabilities for independent, dependent or compound events and represent as a fraction, decimal or percent).	Student Edition: 219-223, 224-229, 232, 233, 280-281, 702-703, 726 <i>Hands-On Algebra</i> 220, 224 Teacher Wraparound Edition: 5MC 224, 238; EC 229; HOA 220, 225; ICE 220-221, 225-227; TT 219, 225

STANDARDS	PAGE REFERENCES
<p>M11.E.3.1.2 Find, convert and/or compare the probability and/or odds of a simple event.</p>	<p>Student Edition: 219-223, 224-229, 232, 233, 243 #28-#29, 280-281, 702-703, 726 <i>Hands-On Algebra</i> 220, 224</p> <p>Teacher Wraparound Edition: 5MC 224, 238; EC 229; HOA 220, 225; ICE 220-221, 225-227; ML 219, 224; TT 219, 225</p>
<p>M11.E.3.2 Apply counting techniques in problem-solving settings. <i>Reference: 2.7.8.A</i></p>	
<p>M11.E.3.2.1 Determine the number of permutations and/or combinations or apply the fundamental counting principle (formula provided on the reference sheet).</p>	<p>Student Edition: 146-151, 152-153, 158 #51, 159, 181, 183, 243 #30, 280-281, 699, 726 <i>Investigation</i> 152-153</p> <p>Teacher Wraparound Edition: 5MC 154; EA 148; ICE 147-148; ML 146, 152; RA 148; TT 148, 153</p>
<p>ASSESSMENT ANCHOR</p>	
<p>M11.E.4 Develop and/or evaluate inferences and predictions or draw conclusions based on data or data displays.</p>	
<p>M11.E.4.1 Make predictions using data displays and probability. <i>Reference: 2.7.8.E, 2.6.11.D</i></p>	
<p>M11.E.4.1.1 Estimate or calculate to make predictions based on a circle, line, bar graph or given situation.</p>	<p>Student Edition: 32-37, 38-43, 46, 47, 57 #51-#53, 90-91, 185 #10, 200-201, 333 #4, 361 #54, 693-694, 724 #6, 748 #3</p> <p>Teacher Wraparound Edition: 5MC 38, 52; EA 42; EC 37, 43; ICE 33-34, 39-41</p>
<p>M11.E.4.1.2 Use probability to predict outcomes.</p>	<p>Student Edition: 146-151, 158 #51, 159, 181, 183, 219-223, 224-229, 232, 233, 702-703, 726 <i>Hands-On Algebra</i> 220, 224</p> <p>Teacher Wraparound Edition: 5MC 154, 224; EC 151, 229; ICE 147-148, 220-221, 225-227</p>

STANDARDS	PAGE REFERENCES
<p>M11.E.4.2 Analyze and/or interpret data on a scatter plot and/or use a scatter plot to make predictions. <i>Reference: 2.6.11.C, 2.6.11.D</i></p>	
<p>M11.E.4.2.1 Draw, find and/or write an equation for a line of best fit for a scatter plot.</p>	<p>Student Edition: 240, 302-307, 308-309, 329, 336 <i>Investigation</i> 308-309 Teacher Wraparound Edition: 5MC 310; ICE 240, 303-304; ML 303, 308; OEA 307; RA 304; TT 303, 309</p>
<p>M11.E.4.2.2 Make predictions using the equations or graphs of best-fit lines of scatter plots.</p>	<p>Student Edition: 240, 302-307, 308-309, 745-747 <i>Investigation</i> 308-309 Teacher Wraparound Edition: 5MC 310; ICE 240, 303-304; ML 303, 308; OEA 307; RA 304; TT 303, 309</p>