



Pennsylvania Assessment Anchors and Eligible Content, Grade 8, Correlated to Pennsylvania Math Connects, Course 3

Lessons in which the assessment anchor and/or eligible content is the primary focus are indicated in bold.

Assessment Anchors and Eligible Content		Lesson(s)	Page Number(s)
M8.A Number and Operations			
ANCHOR M8.A.1 Demonstrate an understanding of numbers, ways of representing numbers, relationships among numbers and number systems.			
M8.A.1.1	Represent numbers in equivalent forms. <i>Reference: 2.1.8.A, 2.1.8.B</i>	Ch. 2 RSP, 2-2, 2-9 , 3-4, Extend 3-6	90–95, 126–129 , 155–159, 172
M8.A.1.1.1	Represent numbers using scientific notation and/or exponential forms.	2-9 , 2-10 , 10-5, 10-7	126–133 , 545–548, 555–558
M8.A.1.1.2	Find the square or cube of a whole number (single digit) and/or the square root of a perfect square (without a calculator), and explain the relationship between the two (i.e., square and square root).	2-9 , 3-1	126–129 , 144–147
ANCHOR M8.A.2 Understand the meanings of operations, use operations and understand how they relate to each other.			
M8.A.2.1	Complete calculations by applying the order of operations. <i>Reference: 2.2.8.A</i>	10-5 , 10-6	545–548 , 550–554
M8.A.2.1.1	Simplify numeric expressions involving integers, using the order of operations. (May include all types of grouping symbols. No combining negatives with exponents [4^{-3}] or compound exponents.)	1-3 , 10-5, 10-6, 10-7	35–39 , 545–548, 550–558
M8.A.2.2	Represent or solve problems using rates, ratios, proportions and/or percents. <i>Reference: 2.1.8.D, 2.3.8.B</i>	4-1 , 4-2 , Extend 4-8 , 5-1, Ch. 5 RSP, 5-8, 6-4, 7-9, 9-4, 9-5, Extend 9-5	190–197 , 231 , 252–255 , 262 , 284–289 , 320–323 , 399–404 , 481–493
M8.A.2.2.1	Solve problems involving percents (e.g., tax, discounts, etc) Do not include percent increase or decrease.	5-1 , 5-2, 5-3, 5-4, 5-7	252–255 , 256–261, 263–271 , 279–283
M8.A.2.2.2	Represent or solve rate problems (e.g., unit rates, simple interest, distance, etc.) Students may be asked to solve for any term (formulas provided on the reference sheet for distance and interest).	4-1 , 4-5 , 4-7, Extend 4-7 , 4-9, 4-10, 5-9, Extend 5-9 , 6-4	190–193 , 210–214 , 218–224, 232–241, 290–294 , 320–323
ANCHOR M8.A.3 Compute accurately and fluently to make reasonable estimates.			
M8.A.3.1	Determine the appropriateness of overestimating, underestimating or calculating an exact answer in problem-solving situations. <i>Reference: 2.2.8.F</i>	5-5	272–273
M8.A.3.1.1	Identify, use and/or explain when it is appropriate to round up or round down.	5-5	272–273
M8.A.3.1.2	Identify, apply and/or explain when an exact answer is needed or when estimation is appropriate.	5-5	272–273

Assessment Anchors and Eligible Content		Lesson(s)	Page Number(s)
M8.A.3.2	Use estimation strategies in problem-solving situations. <i>Reference: 2.2.8.D</i>	3-2, 3-4, 5-1	148–151, 155–159, 252–255
M8.A.3.2.1	Estimate answers to problems involving percents (percents will be limited to: 1%, 10%, 15%, 20%, 25%, 50% or 75%).	5-1, 5-3, 5-6	252–255, 263–267, 275–278
M8.A.3.3	Compute and/or explain operations with integers, fractions and/or decimals. <i>Reference: 2.2.8.B</i>	1-2, Explore 1-4, 1-4, 1-5, 1-6, 1-8, 2-1, 2-3, 2-4, 2-5, 2-6, 3-3, 4-6	29–34, 40–49, 51–56, 62–63, 84–89, 96–112, 114–118, 152–153, 216–217
M8.A.3.3.1	Add, subtract, multiply and/or divide integers, fractions and/or decimals with and without a calculator (straight computation or word problems).	1-2, Explore 1-4, 1-4, 1-5, 1-6, 1-8, 2-1, 2-3, 2-4, 2-5, 2-6, 3-3, 4-6	29–34, 40–49, 51–56, 62–63, 84–89, 96–112, 114–118, 152–153, 216–217
M8.B Measurement			
ANCHOR M8.B.1 Demonstrate an understanding of measurable attributes of objects and figures, and the units, systems and processes of measurement.			
M8.B.1.1	Convert measurements. <i>Reference: 2.3.5.D</i>	CSB9, CSB10	742–745
M8.B.1.1.1	Convert among metric measurements (milli, centi, kilo using meter, liter and gram) (table of equivalency provided on the reference sheet).	CSB9, CSB10	742–745
M8.B.1.1.2	Convert customary measurements up to 2 units above or below the given unit (e.g., inches to yards, pints to gallons) (table of equivalency provided on the reference sheet).	CSB9, CSB10	742–745
M8.B.1.1.3	Convert time up to 2 units above or below given unit (e.g., seconds to hours).	CSB9, CSB10	742–745
M8.B.1.1.4	Convert from Fahrenheit to Celsius or Celsius to Fahrenheit (formulas provided on the reference sheet).	CSB9, <i>Pennsylvania: Map for Success</i>	742–743, <i>Pennsylvania: Map for Success</i>
ANCHOR M8.B.2 Apply appropriate techniques, tools and formulas to determine measurements.			
M8.B.2.1	Determine the measurement of a missing side(s) or angle(s) in a polygon. <i>Reference: 2.3.8.C, 2.9.8.D</i>	6-3	316–319
M8.B.2.1.1	Determine the total number of degrees in the interior angles of a polygon in 3–8 sided figures (formula provided on the reference sheet).	6-3	316–319
M8.B.2.1.2	Determine the measurement of one interior angle of a regular polygon (3–8 sided polygons, formula provided on the reference sheet).	6-3	316–319
M8.B.2.1.3	Determine the number of sides of a polygon given the total number of degrees in the interior angles (3–8 sided polygons, formula provided on the reference sheet).	6-3, <i>Pennsylvania: Map for Success</i>	316–319, <i>Pennsylvania: Map for Success</i>
M8.B.2.2	Use, describe and/or develop procedures to determine measures of perimeter, circumference, area, surface area and/or volume. <i>Reference: 2.3.8.A, 2.3.8.D</i>	7-1, 7-3, Explore 7-3, 7-5, 7-6, Explore 7-7, 7-7, 7-8, 7-9	352–357, 363–367, 362–378, 380–391, 393–396, 399–404

Assessment Anchors and Eligible Content		Lesson(s)	Page Number(s)
M8.B.2.2.1	Calculate the surface area of cubes and rectangular prisms (formula provided on the reference sheet).	7-7	386–391
M8.B.2.2.2	Calculate the volume of cubes and rectangular prisms (formulas provided on the reference sheet).	7-5	373–378
M8.B.2.2.3	Determine the appropriate type of measurement (circumference, perimeter, area, surface area, volume) for a given situation (e.g., which measurement is needed to determine the amount of carpeting for a room).	7-1, 7-3, Explore 7-3, 7-5, 7-6, 7-7, 7-8, Explore 7-9, <i>Pennsylvania: Map for Success</i>	352–357, 363–367, 362–378, 380–391, 393–396, 397–398, <i>Pennsylvania: Map for Success</i>
M8.C Geometry			
ANCHOR M8.C.1 Analyze characteristics and properties of two- and three-dimensional geometric shapes and demonstrate understanding of geometric relationships.			
M8.C.1.1	Identify, use, and/or describe properties of angles, triangles, quadrilaterals, circles, pyramids, cubes, prisms, spheres, cones and/or cylinders. Reference: 2.3.8.C, 2.9.8.B, 2.9.8.E, 2.9.8.D	6-1, Extend 6-4, 6-5, Extend 7-1, 7-4	306–311, 324–325, 327–331, 358–359, 368–372
M8.C.1.1.1	Match the three-dimensional figure with its net (cube, cylinder, cone, prism, pyramid). Any measurements used should be consistent in the stem and answer choices.	Extend 7-7	392
M8.C.1.1.2	Define, identify and/or use properties of angles formed by intersecting lines (complementary, supplementary, adjacent and/or vertical angles).	6-1	306–311
M8.C.1.1.3	Define, identify and/or use properties of angles formed when two parallel lines are cut by a transversal (alternate interior, alternate exterior, vertical corresponding).	6-1	306–311
M8.C.1.2	Compute measures of sides of right triangles using the Pythagorean Theorem. Reference: 2.10.8.A	3-5	162–166
M8.C.1.2.1	Use the Pythagorean Theorem to find the measure of a missing side of a right triangle (formula provided on the reference sheet—whole numbers only).	Explore 3-5, 3-5, 3-6, 3-7	161–166, 167–171, 173–178
ANCHOR M8.C.2 Identify and/or apply concepts of transformations or symmetry. <i>Not Assessed at Grade 8</i>			
ANCHOR M8.C.3 Locate points or describe relationships using the coordinate plane.			
M8.C.3.1	Plot and/or identify ordered pairs on a coordinate plane. Reference: 2.8.5.H	3-7, 4-8, 6-6, 6-7	173–178, 225–230, 332–341
M8.C.3.1.1	Plot, locate or identify ordered pairs on a coordinate plane (the point may be a vertex of a polygon).	3-7, 4-8, 6-6, 6-7	173–178, 225–230, 332–341
M8.D Algebraic Concepts			
ANCHOR M8.D.1 Demonstrate an understanding of patterns, relations and functions.			
M8.D.1.1	Analyze, extend or develop descriptions of patterns or functions. Reference: 2.8.8.B, 2.8.8.G, 2.11.8.C	1-1, 4-3, 6-2, 9-1, Extend 9-2	24–28, 198–203, 314–315, 464–468, 474

LA = Looking Ahead; CSB = Concepts and Skills Bank; RSP = Reading to Solve Problems

Assessment Anchors and Eligible Content		Lesson(s)	Page Number(s)
M8.D.1.1.1	Continue a numeric or algebraic pattern (pattern must show 3 repetitions—may include up to 2 operations, squares and square roots).	2-8, 6-2, 9-1 , 10-3	124–125, 314–315, 464–468 , 538–539
M8.D.1.1.2	Find missing elements in numeric or geometric patterns and/or functions (may be given a table or rule—pattern must show 3 repetitions).	7-2, 9-1 , 9-2	360–361, 464–473
M8.D.1.1.3	Determine the rule of a function (given elements in an input-output table, chart or list—limit to linear functions).	9-2 , 9-3	469–473 , 475–480
ANCHOR M8.D.2 Represent and/or analyze mathematical situations using numbers, symbols, words, tables and/or graphs.			
M8.D.2.1	Select and/or use a strategy to simplify an expression, solve an equation or inequality and/or check the solution for accuracy. <i>Reference: 2.8.8.C, 2.8.8.E</i>	Ch. 1 RSP, 1-9 , 2-7 , 8-8 , 10-8	64–69 , 119–123 , 449–453 , 559–562
M8.D.2.1.1	Solve one- or two-step equations and inequalities (should not include absolute values—one variable only).	1-9 , 1-10 , 2-7 , 5-7 , 8-2 , Explore 8-4 , 8-4 , 8-6 , 8-7 , 8-8	65–73 , 119–123 , 279–283 , 422–426 , 432–437 , 441–453
M8.D.2.1.2	Use substitution to check the accuracy of a given value for an equation or inequality (simple inequalities with one variable).	1-9 , 1-10 , 2-7 , 8-6 , 8-7 , 8-8	65–69 , 70–73 , 119–123 , 441–453

Assessment Anchors and Eligible Content		Lesson(s)	Page Number(s)
M8.D.2.1.3	Determine the value of an algebraic expression by simplifying and/or substituting a number for the variable.	1-2, 8-1, LA 1, LA 2, LA 3	29-34, 416-421, LA2-LA11
M8.D.2.2	Create and/or interpret expressions, equations or inequalities that model problem situations. <i>Reference: 2.8.8.C</i>	1-7, 5-8, 8-3, 9-7	57-61, 284-289, 427-431, 502-507
M8.D.2.2.1	Match a written situation to its numeric and/or algebraic expression, equation or inequality (up to two variables in equations or expressions—one variable with inequalities).	1-7, 8-1, 8-6	57-61, 416-421, 441-444
M8.D.2.2.2	Write and/or solve an equation for a given problem situation (one variable only).	1-7, 1-9, 1-10, 2-7, 5-7, 8-3, 8-4, 8-5	57-61, 65-73, 119-123, 279-283, 427-431, 434-437, 438-439
ANCHOR M8.D.3 Analyze change in various contexts. Not Assessed at Grade 8			
ANCHOR M8.D.4 Describe or use models to represent quantitative relationships.			
M8.D.4.1	Represent relationships with tables or graphs on the coordinate plane. <i>Reference: 2.8.8.C, 2.8.8.H</i>	9-3, 9-7, 10-1, 10-2, 10-4, Extend 10-4	475-480, 502-507, 528-537, 540-544
M8.D.4.1.1	Graph a linear function based on an x/y table (integers only).	9-3	475-480

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Assessment Anchors and Eligible Content		Lesson(s)	Page Number(s)
M8.D.4.1.2	Match the graph of a linear function to its x/y table (integers only).	9-3	475-480
M8.D.4.1.3	Match the linear equation ($y = mx + b$ form) to the x/y table (integers only in the table).	9-3, 9-6, 10-1	475-480, 495-499, 528-533
M8.E Data Analysis and Probability			
ANCHOR M8.E.1 Formulate or answer questions that can be addressed with data and/or organize, display, interpret or analyze data.			
M8.E.1.1	Choose, display or interpret data (tables, charts, graphs, etc.). Reference: 2.6.5.A, 2.6.8.E, 2.7.8.D, 2.6.3.B	11-1, 11-4, Extend 11-4, 11-5, 11-6, 11-8	574-575, 591-597, 599-604, 605-610, 617-621
M8.E.1.1.1	Choose and/or explain the correct representation (graph) for a set of data.	Extend 11-3, 11-8, CSB13	589-590, 617-621, 749-750
M8.E.1.1.2	Analyze data and/or answer questions pertaining to data shown in multiple line graphs, circle graphs or histograms.	11-2, Extend 11-2, 11-3, CSB15, <i>Pennsylvania: Map for Success</i>	576-588, 752-753, <i>Pennsylvania: Map for Success</i>
M8.E.1.1.3	Interpret data shown in stem-and-leaf or box-and-whisker plots.	11-6, Extend 11-6, 11-7	605-616
ANCHOR M8.E.2 Select and/or use appropriate statistical methods to analyze data. <i>Not Assessed at Grade 8</i>			
ANCHOR M8.E.3 Understand and/or apply basic concepts of probability or outcomes.			
M8.E.3.1	Calculate the probability of an event. Reference: 2.7.8.E	12-1, 12-3	632-636, 643-647
M8.E.3.1.1	Find the probability for a mutually exclusive or an independent event (written as a fraction in simplest form).	12-2, 12-3, Extend 12-3, CSB11, CSB12, <i>Pennsylvania: Map for Success</i>	637-647, 648-649, 746-748, <i>Pennsylvania: Map for Success</i>
M8.E.3.2	Determine the number of combinations and/or permutations for an event. Reference: 2.7.8.A	12-1, 12-4	632-636, 650-651
M8.E.3.2.1	Determine/show the number of permutations and/or combinations for an event using up to four choices (e.g., organized list, etc.).	12-1, 12-4	632-636, 650-651
ANCHOR M8.E.4 Develop and/or evaluate inferences and predictions or draw conclusions based on data or data displays.			
M8.E.4.1	Draw conclusions, make inferences and/or evaluate hypotheses based on statistical and data displays. Reference: 2.6.8.C, 2.7.8.E	9-9, 12-5	510-515, 653-658
M8.E.4.1.1	Fit a line to a scatter plot and/or describe any correlation between the two variables (positive, negative, strong, weak or none).	9-9, Extend 9-9	510-517
M8.E.4.1.2	Make predictions based on survey results or graphs (bar, line, circle, scatterplots, etc.).	9-9, 11-3, Extend 11-3, 12-5	510-515, 582-590, 653-658



Pacing Guide for Pennsylvania

The organization and pacing of *Pennsylvania Math Connects*, Course 3 is front-loaded for the PSSA. Following the pacing guide below will help ensure in-depth coverage of all Grade 8 standards, assessment anchors, and eligible content and success on the PSSA.

Boldfaced standards indicate the assessment anchor(s) and/or eligible content that are the main focus of the lesson.

Chapter 1 Algebra: Integers		
1-1	A Plan for Problem Solving	2.5.8.D, 2.8.8.B , 2.8.8.C , 2.11.8.C , M8.D.1.1
1-2	Variables, Expressions, and Properties	2.1.8.B , 2.1.8.E, 2.2.8.A, 2.5.8.C, 2.8.8.A, M8.A.3.3 , M8.A.3.3.1 , M8.D.2.1.3
1-3	Integers and Absolute Value	2.1.8.F, M8.A.2.1.1
Explore 1-4	Algebra Lab: Adding Integers	2.2.8.B , 2.4.8.D, 2.8.8.E , M8.A.3.3 , M8.A.3.3.1
1-4	Adding Integers	2.2.8.B , 2.4.8.A, 2.4.8.D, M8.A.3.3 , M8.A.3.3.1
1-5	Subtracting Integers	2.2.8.B , 2.5.8.C, M8.A.3.3 , M8.A.3.3.1
1-6	Multiplying and Dividing Integers	2.2.8.B , M8.A.3.3 , M8.A.3.3.1
1-7	Writing Equations	2.8.8.D, M8.D.2.2 , M8.D.2.2.1 , M8.D.2.2.2
1-8	PSI: Work Backward	2.5.8.D, M8.A.3.3 , M8.A.3.3.1
RSP	Simplify the Problem	M8.D.2.1
1-9	Solving Addition and Subtraction Equations	2.1.8.G, 2.8.8.D, 2.8.8.F, 2.8.8.K, M8.D.2.1 , M8.D.2.1.1 , M8.D.2.1.2 , M8.D.2.2.2
1-10	Solving Multiplication and Division Equations	2.1.8.G, 2.8.8.D, 2.8.8.F, 2.8.8.K, M8.D.2.1.1 , M8.D.2.1.2 , M8.D.2.2.2

Chapter 2 Algebra: Rational Numbers		
2-1	Rational Numbers	M8.A.3.3 , M8.A.3.3.1
RSP	New Vocabulary	M8.A.1.1
2-2	Comparing and Ordering Rational Numbers	2.1.8.C , M8.A.1.1
2-3	Multiplying Positive and Negative Fractions	2.2.8.B , 2.4.8.D, 2.5.8.B, M8.A.3.3 , M8.A.3.3.1
2-4	Dividing Positive and Negative Fractions	2.2.8.B , 2.4.8.D, 2.4.8.G, M8.A.3.3 , M8.A.3.3.1
2-5	Adding and Subtracting Like Fractions	2.2.8.B , 2.5.8.B, M8.A.3.3 , M8.A.3.3.1
2-6	Adding and Subtracting Unlike Fractions	2.2.8.B , M8.A.3.3 , M8.A.3.3.1
2-7	Solving Equations with Rational Numbers	2.1.8.G, 2.8.8.D, 2.8.8.F, 2.8.8.K, M8.D.2.1 , M8.D.2.1.1 , M8.D.2.1.2 , M8.D.2.2.2
2-8	PSI: Look for a Pattern	2.4.8.B, 2.5.8.D, 2.8.8.B , 2.8.8.C , 2.11.8.C , M8.D.1.1.1
2-9	Powers and Exponents	2.1.8.A , 2.1.8.B , M8.A.1.1 , M8.A.1.1.1 , M8.A.1.1.2
2-10	Scientific Notation	2.1.8.A , 2.1.8.B , M8.A.1.1.1
Chapter 3 Real Numbers and the Pythagorean Theorem		
3-1	Square Roots	2.1.8.C , 2.4.8.G, M8.A.1.1.2
3-2	Estimating Square Roots	2.2.8.C , 2.2.8.E, 2.2.8.F, 2.4.8.C, 2.5.8.C, M8.A.3.2
3-3	PSI: Use a Venn Diagram	2.5.8.D, M8.A.3.3 , M8.A.3.3.1

3-3	PSI: Use a Venn Diagram	2.5.8.D, M8.A.3.3, M8.A.3.3.1
3-4	The Real Number System	2.4.8.G, M8.A.1.1, M8.A.3.2
Explore 3-5	Geometry Lab: The Pythagorean Theorem	2.4.8.A, 2.10.8.A, M8.C.1.2.1
3-5	The Pythagorean Theorem	2.10.8.A, M8.C.1.2, M8.C.1.2.1
3-6	Using the Pythagorean Theorem	2.10.8.A, M8.C.1.2.1
Extend 3-6	Geometry Lab: Graphing Irrational Numbers	2.4.8.A, M8.A.1.1
3-7	Geometry: Distance on the Coordinate Plane	M8.C.1.2.1, M8.C.3.1, M8.C.3.1.1

Chapter 4 Proportions and Similarity

4-1	Ratios and Rates	2.1.8.D, 2.2.8.D, 2.3.8.B, 2.11.8.B, M8.A.2.2, M8.A.2.2.2
CSB 9	Converting Within Measurement Systems	M8.B.1.1, M8.B.1.1.1, M8.B.1.1.2, M8.B.1.1.3, M8.B.1.1.4
PA 5	Temperature Conversions	M8.B.1.1.4
4-2	Proportional and Nonproportional Relationships	2.1.8.D, M8.A.2.2
4-3	Rate of Change	2.2.8.D, 2.11.8.B, M8.D.1.1, M8.D.1.1.3
4-4	Constant Rate of Change	2.2.8.D, 2.11.8.B, M8.D.1.1.3
4-5	Solving Proportions	2.1.8.D, 2.2.8.D, M8.A.2.2.2
4-6	PSI: Draw a Diagram	2.5.8.A, M8.A.3.3, M8.A.3.3.1
4-7	Similar Polygons	2.4.8.C, 2.9.8.F, 2.9.8.K, 2.10.8.B, M8.A.2.2.2
Extend 4-7	Geometry Lab: The Golden Rectangle	2.4.8.A, M8.A.2.2.2
4-8	Dilations	M8.C.3.1, M8.C.3.1.1
Extend 4-8	Spreadsheet Lab: Dilations	M8.A.2.2
4-9	Indirect Measurement	M8.A.2.2.2
4-10	Scale Drawings and Models	2.3.8.F, 2.3.8.G, 2.5.8.C, M8.A.2.2.2

Chapter 5 Percent

5-1	Ratios and Percents	2.1.8.A, 2.2.8.D, M8.A.2.2, M8.A.2.2.1, M8.A.3.2, M8.A.3.2.1
5-2	Comparing Fractions, Decimals, and Percents	2.1.8.A, 2.1.8.C, 2.5.8.B, M8.A.2.2.1
RSP	Comparing Data	M8.A.2.2
5-3	Algebra: The Percent Proportion	M8.A.2.2.1, M8.A.3.2.1
5-4	Finding Percents Mentally	2.2.8.D, M8.A.2.2.1
5-5	PSI: Reasonable Answers	2.5.8.A, M8.A.3.1, M8.A.3.1.1, M8.A.3.1.2
5-6	Percent and Estimation	2.2.8.D, 2.2.8.E, 2.2.8.F, M8.A.3.2.1
5-7	Algebra: The Percent Equation	M8.A.2.2.1, M8.D.2.1.1, M8.D.2.2.2
5-8	Percent of Change	2.5.8.B, M8.A.2.2, M8.D.2.2
5-9	Simple Interest	M8.A.2.2.2
Extend 5-9	Spreadsheet Lab: Compound Interest	M8.A.2.2.2

Chapter 6 Geometry and Spatial Reasoning

6-1	Line and Angle Relationships	2.3.8.C, 2.4.8.C, 2.9.8.B, M8.C.1.1, M8.C.1.1.2, M8.C.1.1.3
Extend 6-1	Geometry Lab: Triangles	M8.C.1.1.2, M8.C.1.1.3
6-2	PSI: Use Logical Reasoning	2.4.8.B, 2.4.8.C, 2.4.8.G, 2.5.8.A, M8.D.1.1, M8.D.1.1.1
6-3	Polygons and Angles	2.9.8.C, 2.9.8.D, M8.B.2.1, M8.B.2.1.1, M8.B.2.1.2, M8.B.2.1.3
PA 9	Regular Polygons	2.9.8.C
PA 10	Interior Angles of Polygons	M8.B.2.1.3
6-4	Congruent Polygons	2.9.8.F, 2.9.8.K, M8.A.2.2, M8.A.2.2.2
Extend 6-4	Geometry Lab: Investigating Congruent Triangles	2.9.8.F, 2.9.8.K, M8.C.1.1
CSB 2	Geometric Constructions	2.9.8.A

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6-5	Symmetry	2.9.8.K, M8.C.1.1
6-6	Reflections	M8.C.3.1, M8.C.3.1.1
6-7	Translations	M8.C.3.1, M8.C.3.1.1
PA 6	Rotations in Three-Dimensional Space	2.9.8.H
PA 7	Transformations with Computer Software	2.9.8.I
PA 8	Constructions with Geometry Software	2.9.8.A
Chapter 7 Measurement: Area and Volume		
7-1	Circumference and Area of Circles	2.3.8.A, 2.3.8.D, 2.3.8.E, 2.9.8.G, M8.B.2.2, M8.B.2.2.3
Extend 7-1	Geometry Lab: Investigating Arcs and Angles	M8.C.1.1
7-2	PSI: Solve a Simpler Problem	2.5.8.A, M8.D.1.1.2
Explore 7-3	Measurement Lab: Area of Irregular Figures	M8.B.2.2, M8.B.2.2.3
7-3	Area of Composite Figures	2.3.8.A, 2.3.8.D, M8.B.2.2, M8.B.2.2.3
7-4	Three-Dimensional Figures	M8.C.1.1
7-5	Volume of Prisms and Cylinders	2.3.8.A, 2.3.8.D, 2.3.8.E, M8.B.2.2, M8.B.2.2.2, M8.B.2.2.3
7-6	Volume of Pyramids and Cones	2.3.8.A, 2.3.8.D, 2.3.8.E, M8.B.2.2, M8.B.2.2.3
Explore 7-7	Measurement Lab: Surface Area of Cylinders	2.3.8.A, 2.3.8.D, M8.B.2.2
7-7	Surface Area of Prisms and Cylinders	2.3.8.A, 2.3.8.D, 2.3.8.E, M8.B.2.2, M8.B.2.2.1, M8.B.2.2.3
Extend 7-7	Measurement Lab: Net of a Cone	M8.C.1.1.1
7-8	Surface Area of Pyramids	2.3.8.A, 2.3.8.D, M8.B.2.2, M8.B.2.2.3
PA 11	Selecting Appropriate Measures	M8.B.2.2.3
Explore 7-9	Spreadsheet Lab: Similar Solids	2.3.8.E, 2.6.8.F, M8.B.2.2.3

7-9	Similar Solids	2.3.8.E, M8.A.2.2, M8.B.2.2
Chapter 8 Algebra: More Equations and Inequalities		
8-1	Simplifying Algebraic Expressions	2.1.8.E, M8.D.2.1.3, M8.D.2.2.1
8-2	Solving Two-Step Equations	2.1.8.G, 2.4.8.B, 2.8.8.D, 2.8.8.F, 2.8.8.K, M8.D.2.1.1
8-3	Writing Two-Step Equations	2.8.8.D, M8.D.2.2, M8.D.2.2.2
Explore 8-4	Algebra Lab: Equations with Variables on Each Side	2.1.8.G, 2.8.8.E, 2.8.8.F, 2.8.8.K, M8.D.2.1.1
8-4	Solving Equations with Variables on Each Side	2.1.8.G, 2.8.8.D, 2.8.8.F, 2.8.8.K, M8.D.2.1.1, M8.D.2.2.2
8-5	PSI: Guess and Check	M8.D.2.2.2
8-6	Inequalities	2.8.8.D, M8.D.2.1.1, M8.D.2.1.2, M8.D.2.2.1
8-7	Solving Inequalities by Adding or Subtracting	2.8.8.D, 2.8.8.F, M8.D.2.1.1, M8.D.2.1.2
8-8	Solving Inequalities by Multiplying or Dividing	2.8.8.D, 2.8.8.F, M8.D.2.1, M8.D.2.1.1, M8.D.2.1.2
PA 3	Solving Square Root Equations	2.1.8.G
Chapter 9 Algebra: Linear Functions		
9-1	Sequences	2.4.8.B, M8.D.1.1, M8.D.1.1.1, M8.D.1.1.2
9-2	Functions	2.8.8.I, M8.D.1.1.2
Extend 9-2	Algebra Lab: Relations and Functions	2.8.8.E, 2.8.8.I, M8.D.1.1
9-3	Representing Linear Functions	2.8.8.H, 2.8.8.I, M8.D.4.1, M8.D.4.1.1, M8.D.4.1.2
9-4	Slope	2.11.8.B, M8.A.2.2
9-5	Direct Variation	M8.A.2.2
Extend 9-5	Geometry Lab: Slope Triangles	M8.A.2.2
9-6	Slope-Intercept Form	2.8.8.H, M8.D.4.1.3
Extend 9-6	Graphing Calculator Lab: Modeling Linear Behavior	2.6.8.F, 2.8.8.J, M8.E.1.1.2
9-7	Systems of Equations	M8.D.2.2, M8.D.4.1

PA 4	Graph Inequalities Using Technology	2.8.8.G
9-8	PSI: Use a Graph	M8.E.1.1.2
9-9	Scatter Plots	2.6.8.C, M8.E.4.1, M8.E.4.1.1, M8.E.4.1.2
Extend 9-9	Graphing Calculator Lab: Scatter Plots	2.6.8.C, 2.6.8.F, 2.8.8.G, 2.8.8.J, M8.E.4.1.1
Chapter 10 Algebra: Nonlinear Functions and Polynomials		
10-1	Linear and Nonlinear Functions	M8.D.4.1, M8.D.4.1.3
10-2	Graphing Quadratic Functions	2.11.8.A, M8.D.4.1
10-3	PSI: Make a Model	M8.D.1.1.1
10-4	Graphing Cubic Functions	M8.D.4.1
Extend 10-4	Graphing Calculator Lab: Families of Nonlinear Functions	2.6.8.F, 2.8.8.G, M8.D.4.1
PA 2	Exponential Functions	2.8.8.C
10-5	Multiplying Monomials	M8.A.1.1.1, M8.A.2.1, M8.A.2.1.1
10-6	Dividing Monomials	M8.A.2.1, M8.A.2.1.1
10-7	Powers of Monomials	M8.A.1.1.1, M8.A.2.1.1
10-8	Roots of Monomials	M8.D.2.1
LA 1	Polynomials	M8.D.2.1.3
LA 2	Adding Polynomials	2.1.8.E, M8.D.2.1.3
LA 3	Subtracting Polynomials	2.1.8.E, M8.D.2.1.3
PA 1	Special Products	2.1.8.E
Chapter 11 Statistics		
11-1	PSI: Make a Table	2.7.8.B, M8.E.1.1, M8.E.1.1.2
CSB 13	Displaying Data in Graphs	M8.E.1.1.1
11-2	Histograms	2.4.8.H, 2.6.8.F, 2.7.8.B, M8.E.1.1.2
Extend 11-2	Graphing Calculator Lab: Histograms	2.7.8.B, M8.E.1.1.2

11-3	Circle Graphs	2.4.8.H, 2.6.8.F, 2.7.8.B, M8.E.1.1.2, M8.E.4.1.2
Extend 11-3	Spreadsheet Lab: Line, Bar, and Circle Graphs	M8.E.1.1.1, M8.E.4.1.2
PA 13	Multiple-Line Graphs	M8.E.1.1.2
11-4	Measures of Central Tendency and Range	2.4.8.H, 2.6.8.A, 2.6.8.F, M8.E.1.1
Extend 11-4	Spreadsheet Lab: Mean, Median, and Mode	2.6.8.A, M8.E.1.1
11-5	Measures of Variation	2.4.8.H, 2.6.8.A, M8.E.1.1
11-6	Box-and-Whisker Plots	2.6.8.E, 2.6.8.F, 2.7.8.B, M8.E.1.1, M8.E.1.1.3
Extend 11-6	Graphing Calculator Lab: Box-and-Whisker Plots	2.6.8.E, 2.7.8.B, M8.E.1.1.3
11-7	Stem-and-Leaf Plots	2.6.8.E, 2.7.8.B, M8.E.1.1.3
11-8	Select an Appropriate Display	M8.E.1.1, M8.E.1.1.1
CSB 15	Misleading Graphs	M8.E.1.1.2
Chapter 12 Probability		
12-1	Counting Outcomes	M8.E.3.1, M8.E.3.2, M8.E.3.2.1
CSB 11	Probability of Simple Events	M8.E.3.1.1
12-2	Probability of Compound Events	2.7.8.E, M8.E.3.1.1
PA 12	Mutually Exclusive Events	M8.E.3.1.1
12-3	Experimental and Theoretical Probability	2.7.8.E, M8.E.3.1, M8.E.3.1.1
Extend 12-3	Probability Lab: Fair Games	M8.E.3.1.1
CSB 12	Geometric Probability	M8.E.3.1.1
12-4	PSI: Act It Out	M8.E.3.2, M8.E.3.2.1
12-5	Using Sampling to Predict	2.6.8.B, 2.6.8.D, 2.6.8.G, 2.7.8.C, 2.7.8.D, 2.7.8.E, M8.E.4.1, M8.E.4.1.2

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