

Curriculum Heading	Aligned State Standard	Teacher Resources	Performance Indicator
Data Analysis and Probability	10.8 (C)	MGM text Section 11-1	Students will represent probabilities of events as ratios, fractions, decimal between 0 and 1, and percentages between 0 and 100.
Data Analysis and Probability	10.8.01 (A/B)	MGM text Sections 1-5, 1-6, 1-7, 1-8	Students will read, interpret (including possible misleading characteristics), and make predictions from data represented in a bar graph, line (dot) plot, Venn diagram (with two or three circles), chart/table, line graph, scatter plot, circle graph, stem-and-leaf plot, or histogram.
Data Analysis and Probability	10.8.02 (A/B)	MGM text Sections 1-8	Students will compare and contrast the effectiveness of different representations of the same data.
Data Analysis and Probability	10.8.03 (A/B)	MGM text Section 1-8	Students will create a bar graph, chart/table, line graph, or circle graph and solve a problem using the data in the graph for a given set of data.
Data Analysis and Probability	10.8.04 (A/B)	MGM text Section 1-7	Students will identify or draw a reasonable approximation of the line of best fit from a set of data or a scatter plot, and use the line to make predictions.
Data Analysis and Probability	10.8.05 (A/B)	MGM text Section 1-4	Students will analyze and apply measures of central tendency (mode, median and mean) and the range in problem solving situations.
Data Analysis and Probability	10.8.06 (C)	MGM text Sections 1-11, 11-4, 11-5	Students will solve problems involving the probability of an event composed of repeated trials, compound events (including independent events), or future events with or without replacement.
Data Analysis and Probability	10.8.07 (C)	MGM text Sections 11-1, 11-4, 11-5	Students will represent all possible outcomes (sample space) for simple compound events (e.g. tables, grids, tree diagrams).
Data Analysis and Probability	10.8.08 (C)	MGM text Sections 11-1, 11-2, 11-3	Students will solve simple problems involving the number of ways objects can be arranged (permutations and combinations).
Numbers and Operations	6.8 (A)	MGM text Sections 5-2, 5-3	Students will identify as rational any terminating or repeating decimal.
Numbers and Operations	6.8 (B/C)	MGM text Sections 5-5,5-6	Students will add and subtract rational numbers.
Numbers and Operations	6.8 (B/C)	MGM text Section 5-7	Students will find multiply and divide with rational numbers.
Numbers and Operations	6.8.01 (A)	MGM text Section 2-11	Students will read, write, and recognize equivalent representations of integer powers of 10.

Numbers and Operations	6.8.02 (A)	MGM text Sections 2-1, 2-2, 2-3, 2-4, 2-5	Students will read, write, recognize, model, and interpret integers including translating numerical expressions.
Numbers and Operations	6.8.03 (A)	MGM text Section 7-1	Students will recognize, translate between, and apply multiple representations of rational numbers (decimals, fractions, mixed numbers, percents, and roots).
Numbers and Operations	6.8.04 (A)	MGM text Section 2-11	Students will use scientific notation to represent numbers and solve problems.
Numbers and Operations	6.8.05 (A)	MGM text Sections 2-6, 5-1	Students will represent repeated factors using exponents
Numbers and Operations	6.8.06 (A)	MGM text Section 5-7	Students will order and compare rational numbers.
Numbers and Operations	6.8.07 (A)	MGM text Section 5-7	Students will identify and locate rational numbers and common irrational numbers (pi, sort 2, sort 5) on the number line.
Numbers and Operations	6.8.08 (A)	MGM text Sections 5-1, 5-4, 5-9	Students will solve problems involving descriptions of numbers, including characteristics and relationships (e.g., exponents, roots, prime/composite, prime factorizations, greatest common factor, least common multiple).
Numbers and Operations	6.8.09 (B/C)	MGM text Sections 3-2,3-3,3-4,3-5,3-6,3-7	Students will solve problems and number sentences involving addition, subtraction, multiplication, and division using integers, fractions, and decimals.
Numbers and Operations	6.8.10 (B/C)	MGM text Sections 2-7, 5-2	Students will identify and apply order of operations to simplify numeric expressions involving integers (including exponents and roots), fractions and decimals.
Numbers and Operations	6.8.11 (B/C)	MGM text Sections 2-8, 2-3, 5-7	Students will identify and apply the following properties of operations with rational numbers: The commutative and associative properties for addition and multiplication, the distributive property, the additive and multiplicative identity properties, the additive and multiplicative inverse properties, and the multiplicative property of zero.
Numbers and Operations	6.8.12 (B/C)		Students will describe the effect of multiplying and dividing by numbers, including the effect of multiplying or dividing a rational number by: a number less than zero, zero, a number between zero and one, and a number greater than one.

Numbers and Operations	6.8.13 (B/C)	MGM text Section 7-2	Students will select, use, and justify appropriate operations, methods, and tools to compute or estimate with rational numbers, verify solutions, and determine the reasonableness of results.
Numbers and Operations	6.8.14 (B/C)	MGM text Section 5-9	Students will estimate the square or cube root of a number less than 1000 between two whole numbers (e.g. cube root of 200 is between 5 and 6).
Numbers and Operations	6.8.15 (D)	MGM text Section 6-1	Students will use ratios to describe problem situations
Numbers and Operations	6.8.16 (D)	MGM text Section 7-3	Students will use proportional reasoning to model and solve problems.
Numbers and Operations	6.8.17 (D)	MGM text Section 7-1, 7-2, 7-6	Students will read, write, recognize, model, and interpret percents, including those less than 1% and greater than 100%.
Numbers and Operations	6.8.18 (D)	MGM text Sections 7-6, 7-7, 7-8	Students will solve number sentences and problems involving fractions, decimals, and percents (e.g. percent increase and decrease, interest rates, tax, discounts, and tips).
Measurement/Geometry	7.8.01 (A,B,C)	MGM text Sections 8-6, 8-7, 8-10	Students will select and use appropriate standard units and tools to solve measurement problems, including measurements of polygons and circles.
Measurement/Geometry	7.8.02 (A,B,C)	MGM text Section 8-6, 8-7, 8-9, 8-10	Students will solve problems involving perimeter/circumference and area of polygons, circles, and composite figures using diagrams, models, and grids or by measuring or using given formulas (may include sketching a figure from its description).
Measurement/Geometry	7.8.03 (A,B,C)	MGM text Sections 8-6, 8-7, 8-9, 8-10	Students will compare and estimate length (including perimeter/circumference), area, volume, weight/mass, and angles (0 to 360) using referents.

Measurement/Geometry	7.8.04 (A,B,C)	MGM text Sections 9-5, 9-7	Students will solve practical problems involving volume or surface area of a right rectangular prism, right circular cylinder, or composite shape using an appropriate formula or strategy.
Measurement/Geometry	7.8.05 (A,B,C)	MGM text Section 6-2	Students will solve problems involving unit conversions within the same measurement system for length, weight/mass, capacity, square units, and measures expressed as rates (e.g., converting feet/second to yards/minute).
Measurement/Geometry	7.8.06 (A,B,C)	MGM text Sections 6-4, 6-8	Students will solve problems involving scale drawings, maps, and indirect measurement (e.g. determining the height of a building by comparing its known shadow length to the known height and shadow length of another object).
Algebra	8.8 (A)	MGM text Section 2-2	Students will translate verbal expressions into algebraic expressions and vice versa.
Algebra	8.8 (A)	MGM text Sections 10-2, 10-3, 10-4	Students will evaluate functions written in function notation.
Algebra	8.8.01 (A)	MGM text Section 10-4	Students will analyze, extend, and create sequences or linear functions, and determine algebraic expressions to describe the nth term of a sequence.
Algebra	8.8.02 (A)	MGM text Sections 2-2, 3-2, 3-3, 3-5, 3-6	Students will write an expression using variables to represent unknown quantities.
Algebra	8.8.03 (A)	MGM text Sections 10-10, 10-11, 3-1	Students will simplify algebraic expressions.
Algebra	8.8.04 (A)	MGM text Sections 10-10, 10-11, 3-1	Students will recognize and generate equivalent forms of algebraic expressions.
Algebra	8.8.05 (A)	MGM text Sections 2-2, 2-6, 2-7	Students will evaluate or simplify algebraic expressions with one or more rational variable values (e.g., $3a - b$ for $a=3$ and $b=7$).
Algebra	8.8.06 (B)	MGM text Sections 4-3, 10-4	Students will recognize, describe, and extend patterns using rate of change.
Algebra	8.8.07 (B)	MGM text Sections 4-2, 4-3, 4-4, 4-6, 4-7	Students will represent linear equations and quantitative relationships on a rectangular coordinate system, and interpret the meaning of a specific part of the graph.

Algebra	8.8.08 (B)	MGM text Sections 4-6, 4-7	Students will translate between different representations (table, written, graphical, or pictorial) of whole number relationships and linear expressions.
Algebra	8.8.09 (B)	MGM text Sections 4-3, 4-4	Students will interpret the meaning of slope and intercepts in linear situations.
Algebra	8.8.10 (B)		Students will identify, graph, and interpret up to two inequalities with a single variable (including the intersection or union of these inequalities) on a number line.
Algebra	8.8.11 (C/D)	MGM text Sections 3-5,3-8,4-6,4-7	Students will represent and analyze problems with linear equations and inequalities.
Algebra	8.8.12 (C/D)	MGM text Sections 3-2,3-3,3-4,3-5,3-6,3-7,3-8,3-9	Students will solve linear equations and inequalities in one variable over the rational numbers (e.g., $5x + 7 = -13$, $4x - 3 + -7x + 8$, $-2x + 3 > -5$).
Algebra	8.8.13 (C/D)	MGM text Sections 3-2, 3-3,3-5,3-6	Students will solve word problems involving unknown quantities.
Measurement/Geometry	9.8.01 (A)	MGM text Chapters 8-9	Students will solve problems involving two- and three- dimensional shapes.
Measurement/Geometry	9.8.02 (A)	MGM text Sections 8-6	Students will solve simple problems that require knowledge of triangle and quadrilateral properties (e.g., triangle inequality).
Measurement/Geometry	9.8.03 (A)	MGM text Section 5-10	Students will find the length of any side of a right triangle using the Pythagorean theorem (whole number solutions).
Measurement/Geometry	9.8.04 (A)	MGM text Section 8-10	Students will identify, describe, and determine the radius, diameter, and circumference of a circle and their relationship to each other and to pi.
Measurement/Geometry	9.8.05 (A)	MGM text Section 4-1	Students will graph points, and identify coordinates of points on the Cartesian coordinate plane (all four quadrants).
Measurement/Geometry	9.8.06 (A)	MGM text Section 4-8, 4-9, 4-10	Students will represent and identify geometric figures using coordinate geometry, including those resulting from transformations.
Measurement/Geometry	9.8.07 (A)	MGM text Sections 4-8, 4-9, 4-10	Students will analyze the results of a combination of transformations, and determine a different transformation that could produce the same result.
Measurement/Geometry	9.8.08 (A)	MGM text Section 8-4	Students will analyze relationships of angles formed by intersecting lines (including parallel lines cut by a transversal) and angle formed by radii of a circle.
Measurement/Geometry	9.8.09 (A)	MGM text Section 8-2, 8-4	Students will solve problems involving vertical, complementary, and supplementary angles.

Measurement/Geometry	9.8.10 (B)	MGM text Section 9-1, 9-2, 9-3	Students will identify front, side, and top views of a three- dimensional solid built with cubes.
Measurement/Geometry	9.8.11 (B)	MGM text Sections 6-4,6-8, 8-5	Students will solve problems involving congruent and similar figures.
Measurement/Geometry	9.8.12 (B)	MGM text Section 2-1	Students will relate absolute value to distance on the number line.