

SIXTH GRADE	
October State Goals For Math	
6.6.09	Order and compare fractions and mixed numbers having like or unlike denominators.
6.6.03	Read, write, recognize, and model equivalent representations of fractions, including improper fractions and mixed numbers.
6.6.04	Recognize, translate between, and apply multiple representations of decimals, fractions, percents (less than 100%), and mixed numbers (halves, quarters, fifths, and tenths).
6.6.06	Represent repeated factors using exponents.
6.6.10	Identify and locate decimals, fractions, and mixed numbers on a number line.
6.6.11	Solve problems involving descriptions of numbers, including characteristics and relationships (e.g., odd/even, factors/multiples, greater than, less than, square
6.6.14	Solve problems involving addition and subtraction of fractions and mixed numbers, and express answers in simplest form.
6.6.17	Make estimates appropriate to a given situation, and analyze what effect the estimation method used has on the accuracy of results.
6.6.20	Read, write, recognize, and model percents from 0% to 100%.
6.6.21	Solve number sentences and problems involving percents.

SIXTH GRADE	
November State Goals For Math	
6.6.18	Identify and express ratios using appropriate notation (i.e., a/b , a to b , $a:b$), identify equivalent ratios, and explain ratios that represent a given situation.
6.6.19	Solve problems involving proportional relationships, including unit pricing (e.g., seven apples cost \$1.40, so nine apples cost \$1.80).
7.6.06	Solve problems involving scale drawings and maps.

SIXTH GRADE	
January State Goals For Math	
6.6.02	Read, write, recognize, model, and interpret numerical expressions from a given description or situation.
6.7.05	Order and compare integers, terminating decimals, fractions, and mixed numbers.
6.7.06	Identify and locate integers, decimals, and fractions/mixed numbers on a number line, and estimate the locations of square roots.
8.6.02	Write an expression using variables to represent unknown quantities.
8.6.07	Identify graphs of inequalities on a number line.
8.6.08	Represent problems with equations and inequalities.
8.6.09	Solve for the unknown in an equation with one operation (e.g., $8x = 24$, $m \div 2 = 25$).
8.6.10	Solve word problems involving unknown quantities.

SIXTH GRADE	
February State Goals For Math	
8.6.04	Determine a rule having two operations from an input–output table (e.g., multiply by 3 and add 2).
8.6.05	Select a table of values that satisfies a linear equation, and recognize the ordered pairs on a rectangular coordinate system.
8.6.06	Translate between different representations (table, written, or pictorial) of whole number relationships.
9.6.01	Classify, describe, and sketch regular and irregular two–dimensional shapes according to the number of sides, length of sides, number of vertices, and interior angles.
9.6.05	Graph, locate, identify points, describe paths, and plot figures using ordered pairs (first quadrant).
9.6.07	Identify and sketch parallel, perpendicular, and intersecting lines.
9.6.08	Identify and sketch acute, right, and obtuse angles.
9.6.13	Determine the distance between two points on a horizontal or vertical number line.

SIXTH GRADE	
March State Goals For Math	
7.6.02	Solve problems involving the perimeter and area of a triangle, parallelogram, or irregular shape using diagrams, models, and grids or by measuring or using given
7.6.04	Determine the volume of a right rectangular prism using an appropriate formula or strategy.
9.6.02	Identify and describe three-dimensional shapes (cubes, spheres, cones, cylinders, prisms, and pyramids) according to their characteristics (faces, edges, vertices).
9.6.03	Solve problems using properties of triangles and quadrilaterals (e.g., sum of interior angles of a quadrilateral is 360°).
9.6.06	Identify, describe, and predict results of reflections, translations, and rotations of two-dimensional shapes.
9.6.09	Identify a three-dimensional object from its net.
9.6.10	Recognize which attributes (such as shape, perimeter, and area) change or don't change when plane figures are composed, decomposed, or rearranged.
9.6.11	Identify congruent and similar figures by visual inspection.
9.6.12	Determine if figures are similar, and identify relationships between corresponding parts of similar figures.

SIXTH GRADE	
April State Goals For Math	
7.6.01	Select and use appropriate standard units and tools to measure length, mass/weight, capacity, and angles.
7.6.03	Compare and estimate length (including perimeter), area, volume, weight/mass, and angles (0° to 180°) using referents.
7.6.05	Solve problems involving unit conversions within the same measurement system for time, length, and weight/mass, including compound units (e.g., 5ft 5in, 2lbs 2oz).
10.6.01	Read, interpret, and make predictions from data represented in a bar graph, line (dot) plot, Venn diagram (with two circles), chart/table, line graph, or circle graph.
10.6.02	Compare different representations of the same data.
10.6.03	Create a bar graph, chart/table, line graph, or circle graph with common referents ($\frac{1}{4}$, 50%, .75) for a given set of data.
10.6.04	Determine the mode, range, median, and mean, given a set of data or a graph.
10.6.05	Solve problems involving the probability of a simple event, including representing the probability as a fraction, decimal, or percent.
10.6.06	Apply the fundamental counting principle in a simple problem (e.g., How many different 3–digit numbers can be made with the digits 1, 2, and 2?).

SIXTH GRADE	
May State Goals For Math	
6.6.02	Read, write, recognize, model, and interpret numerical expressions from a given description or situation.
6.7.07	Solve problems involving descriptions of numbers, including characteristics and relationships (e.g., square numbers, prime/composite, prime factorization, greatest common factor, least common multiple).
6.7.08	Solve problems and number sentences involving addition, subtraction, multiplication, and division using integers, fractions, and decimals.
8.6.02	Write an expression using variables to represent unknown quantities.
8.6.08	Represent problems with equations and inequalities.
8.6.10	Solve word problems involving unknown quantities.