



First Semester	Second Semester
<p>From 5th Grade YAG: [Grade 5] Unit 1: Number and Operations I (3 weeks) Approximate dates: August 25 – September 12, 2014</p> <p>1.1 I can multiply multi-digit whole numbers using multiple efficient strategies. (5.1.1.4) 1.2 I can solve real-world and mathematical problems in different ways, and assess the reasonableness of my answers. (5.1.1.4) 1.3 I can estimate the solution of a problem to determine if my answer is reasonable. (5.1.1.3) 1.4 I can divide multi-digit whole numbers using multiple efficient strategies and represent the quotient in a variety of ways. (5.1.1.1) 1.5 I can analyze the situation of a story problem and define the quotient based on the situation. (5.1.1.2)</p> <p>[Grade 5] Unit 2: Rational Numbers I (3 weeks) Approximate dates: September 15 – October 3, 2014</p> <p>2.1 I can create and use equivalent fractions, mixed numbers, and improper fractions in various contexts (MN Benchmark 5.1.2.4) 2.2 I can compare and order fractions (MN Benchmark 5.1.2.3) 2.3 I can locate fractions on the number line (MN Benchmark 5.1.2.3) 2.4 I can represent real-world (including measurement, geometry, and data) and mathematical problems involving addition and subtraction of fractions using multiple strategies including estimation. (MN Benchmark 5.1.3.1, 5.1.3.2, 5.1.3.3, 5.1.3.4) 2.5 I can represent real-world (including measurement, geometry, and data) and mathematical problems involving addition and subtraction of fractions using multiple strategies including standard algorithm. (MN Benchmark 5.1.3.1, 5.1.3.2, 5.1.3.3, 5.1.3.4)</p> <p>[Grade 5] Unit 3: Geometry and Measurement (3 weeks) Approximate dates: October 6 – 30, 2014</p> <p>3.1 I can measure the surface area of rectangular prisms using appropriate units. (5.3.2.2) 3.2 I can measure the volume of rectangular prisms using appropriate units. (5.3.2.3) 3.3 I can create and use formulas to determine the volume of rectangular prisms and justify why they work. (5.3.2.4) 3.4 I can describe and classify a pyramid based on its attributes (triangular, rectangular, square, pentagonal, hexagonal, octagonal) and draw its net. (5.3.1.1) 3.5 I can describe and classify prisms (cube, rectangular, triangular, pentagonal, hexagonal, octagonal, cylinder) based on their attributes and draw their nets. (5.3.1.2) 3.6 I can create and use a formula to determine the area of a parallelogram. (5.3.2.1) 3.7 I can create and use a formula to determine the area of a triangle. (5.3.2.1) 3.8 I can decompose other polygons into triangles to determine their area. (5.3.2.1)</p>	<p>[Grade 6] Unit 4: More Rational Numbers (5 weeks) Approximate dates: January 5 – February 6, 2015</p> <p>4.1 I can use estimation and know if my answer makes sense. (6.1.3.5) 4.2 I can use and justify procedures for multiplication and division of decimals, fractions, and mixed numbers. (6.1.3.1, 6.1.3.2) 4.3 I can solve real-world mathematical problems with combinations of decimals, fractions, and mixed numbers. (6.1.3.4) 4.4 I can create equivalent expressions using order of operations, the associative, commutative, and distributive properties with positive rational numbers. (6.2.2.1) 4.5 I can determine the equivalence among fractions, decimals and percents. (6.1.1.4) 4.6 I can compare fractions, decimals and percents using equality and inequality symbols. (6.1.1.2, 6.1.1.3) 4.7 I can use percents in my daily life. (6.1.3.3)</p> <p>[Grade 6] Unit 5: Ratio and Rates (4 weeks) Approximate dates: February 9 – March 10, 2015</p> <p>5.1 I can solve problems in a variety of contexts by comparing ratios and applying the relationship between ratios, equivalent fractions and percent. (6.1.2.1, 6.1.2.2) 5.2 I can use rates to solve real-world problems. (6.1.2.3, 6.1.2.4) 5.3 I can estimate weights, capacities and geometric measurements using benchmarks, and use the appropriate units. (6.3.3.2) 5.4 I can solve real-world problems involving conversion of weights, capacity, measurements and time. (6.3.3.1)</p> <p>[Grade 6] Unit 6: Probability (3 weeks) Approximate dates: March 11 – April 10, 2015</p> <p>6.1 I can use theoretical probability to measure the likelihood of an event happening or not happening. (6.4.1.2) 6.2 I can make predictions using experimental probability. (6.4.1.3, 6.4.1.4) 6.3 I can analyze probability situations to determine sample space and likelihood of related events occurring, and use the analysis to make decisions and predictions. (6.4.1.1, 6.4.1.2) 6.4 I can compare results from probability experiments to known theoretical probability. (6.4.1.3, 6.4.1.4)</p> <p>[Grade 6] Unit 7: Algebra (4 weeks) Approximate dates: April 13 – May 8, 2015</p> <p>7.1 I can locate positive rational numbers on a number line and plot ordered pairs on a coordinate grid. (6.1.1.1) 7.2 I can identify the variables in a real-world situation and describe their relationship to each other. (6.2.1.1) 7.3 I can write equations and inequalities with variables to represent real-world situations. (6.2.3.1) 7.4 I can evaluate equations with variables in context. (6.2.3.2) 7.5 Given a representation of a function, I can move flexibly between tables, graphs, and equations. (6.2.1.2) 7.6 I can determine the measurement of angles formed by intersecting lines. (6.3.2.1) 7.7 I can prove the sum of the interior angles of any type of polygon. (6.3.2.2, 6.3.2.3)</p>
<p>From 6th Grade YAG: [Grade 6] Unit 1: Number and Operations (1 week) Approximate dates: November 3 – 7, 2014</p> <p>1.1 I can demonstrate prime factorization using exponents. (6.1.1.5, 6.1.1.7) 1.2 I can use greatest common factors and least common multiples to calculate with fractions and find their equivalents. (6.1.1.6) 1.3 I can create equivalent expressions using order of operations, the associative, commutative, and distributive properties with whole numbers and addition and subtraction of fractions. (6.2.2.1)</p> <p>[Grade 6] Unit 2: Rational Numbers (3 weeks) Approximate dates: November 10 – December 5, 2014</p> <p>2.1 I can convert rational numbers to equivalent expressions including fractions, mixed numbers, improper fractions. (6.1.1.7) 2.2 I can use estimation and know if my answer makes sense. (6.1.3.5) 2.3 I can justify procedures for multiplication and division of fractions, and solve real-world problems using fractions and mixed numbers. (6.1.3.1, 6.1.3.2, 6.1.3.4) 2.4 I can create equivalent expressions using order of operations, the associative, commutative, and distributive properties with whole numbers and fractions. (6.2.2.1)</p> <p>[Grade 6] Unit 3: 2-D and 3-D Geometry (2 weeks) Approximate dates: December 8 – 19, 2014</p> <p>3.1 I can calculate the area of a variety of quadrilaterals, and justify the formulas and/or other methods used. (6.3.1.2) 3.2 I can estimate the perimeter and area of irregular figures on a grid when they cannot be decomposed into common figures. (6.3.1.3) 3.3 I can justify how I solve mathematical and real-world problems involving the surface area and volume of prisms. (6.3.1.1)</p>	<p>[Grade 6] Unit 4: More Rational Numbers (5 weeks) Approximate dates: January 5 – February 6, 2015</p> <p>4.1 I can use estimation and know if my answer makes sense. (6.1.3.5) 4.2 I can use and justify procedures for multiplication and division of decimals, fractions, and mixed numbers. (6.1.3.1, 6.1.3.2) 4.3 I can solve real-world mathematical problems with combinations of decimals, fractions, and mixed numbers. (6.1.3.4) 4.4 I can create equivalent expressions using order of operations, the associative, commutative, and distributive properties with positive rational numbers. (6.2.2.1) 4.5 I can determine the equivalence among fractions, decimals and percents. (6.1.1.4) 4.6 I can compare fractions, decimals and percents using equality and inequality symbols. (6.1.1.2, 6.1.1.3) 4.7 I can use percents in my daily life. (6.1.3.3)</p> <p>[Grade 6] Unit 5: Ratio and Rates (4 weeks) Approximate dates: February 9 – March 10, 2015</p> <p>5.1 I can solve problems in a variety of contexts by comparing ratios and applying the relationship between ratios, equivalent fractions and percent. (6.1.2.1, 6.1.2.2) 5.2 I can use rates to solve real-world problems. (6.1.2.3, 6.1.2.4) 5.3 I can estimate weights, capacities and geometric measurements using benchmarks, and use the appropriate units. (6.3.3.2) 5.4 I can solve real-world problems involving conversion of weights, capacity, measurements and time. (6.3.3.1)</p> <p>[Grade 6] Unit 6: Probability (3 weeks) Approximate dates: March 11 – April 10, 2015</p> <p>6.1 I can use theoretical probability to measure the likelihood of an event happening or not happening. (6.4.1.2) 6.2 I can make predictions using experimental probability. (6.4.1.3, 6.4.1.4) 6.3 I can analyze probability situations to determine sample space and likelihood of related events occurring, and use the analysis to make decisions and predictions. (6.4.1.1, 6.4.1.2) 6.4 I can compare results from probability experiments to known theoretical probability. (6.4.1.3, 6.4.1.4)</p> <p>[Grade 6] Unit 7: Algebra (4 weeks) Approximate dates: April 13 – May 8, 2015</p> <p>7.1 I can locate positive rational numbers on a number line and plot ordered pairs on a coordinate grid. (6.1.1.1) 7.2 I can identify the variables in a real-world situation and describe their relationship to each other. (6.2.1.1) 7.3 I can write equations and inequalities with variables to represent real-world situations. (6.2.3.1) 7.4 I can evaluate equations with variables in context. (6.2.3.2) 7.5 Given a representation of a function, I can move flexibly between tables, graphs, and equations. (6.2.1.2) 7.6 I can determine the measurement of angles formed by intersecting lines. (6.3.2.1) 7.7 I can prove the sum of the interior angles of any type of polygon. (6.3.2.2, 6.3.2.3)</p> <p>MCA Testing (1 week) All Grade 5 standards <u>must</u> be taught prior to MCA testing. Approximate dates: April 27 – May 8, 2015</p> <p>[Grade 6] Unit 8: Similarity (3 weeks) Approximate dates: May 11 – June 5, 2015</p> <p>8.1 I can use algebraic rules to describe and produce translations and reflections of figures on a coordinate grid. (7.3.2.4) 8.2 I can determine if two figures are similar. (7.3.2.1) 8.3 I can find missing measures in similar figures using scale factors and/or length and area ratios. (7.3.2.2) 8.4 I can use the properties of similarity to solve problems involving scale drawings. (7.3.2.3)</p>