



# Year-at-a-Glance (YAG) --- Telescoped 4/5 Course --- Mathematics

First Semester	Second Semester
<p><b>From 4<sup>th</sup> Grade YAG:</b></p> <p><b>[Grade 4] Unit 1: Number and Operations I (6 weeks)</b> <b>Approximate dates: August 25 – October 13, 2015</b></p> <p>1.1 I can read and write whole numbers through the hundred thousands place. (4.1.2.4)</p> <p>1.2 I can compare and order whole numbers using models. (4.1.2.5)</p> <p>1.3 I can demonstrate fluency of multiplication facts. 1-9. (4.1.1.1)</p> <p>1.4 I can multiply numbers by 10, 100 and 1,000. (4.1.1.2)</p> <p>1.5 I can multiply whole numbers as great as 3 digit numbers by 2 digit numbers. (4.1.1.3)</p> <p>1.6 I can estimate products. (4.1.1.4)</p> <p>1.7 I can solve real-world problems using addition, subtraction and multiplication. (4.1.1.5)</p> <p><b>[Grade 4] Unit 2: Algebra (3 weeks)</b> <b>Approximate dates: October 19- November 11, 2015</b></p> <p>2.1 I can create and use input-output rules to solve (<i>addition, subtraction, multiplication, and division</i>) problems and can record the inputs and outputs in a table. (4.2.1.1)</p> <p>2.2 I can write and interpret (<i>read</i>) number sentences that involve multiplication, division, and unknowns (<i>variables</i>) to represent a real-world problem. (4.2.2.1)</p> <p>2.3 I can find the values for the unknowns that make a number sentence true. (4.2.2.2)</p> <p><b>[Grade 4] Unit 3: Data Analysis (2 ½ weeks)</b> <b>Approximate dates: November 12 – December 2, 2015</b></p> <p>3.1 I can display a data set in several ways, including a bar graph, timeline, Venn diagram, line plot or pictograph. (4.4.1.1)</p> <p>3.2 I can interpret data displayed on graph or spreadsheet table. (4.4.1.1)</p> <p><b>[Grade 4] Unit 4: Number and Operations II (3 ½ weeks)</b> <b>Approximate dates: December 3, 2015 – January 8, 2016</b></p> <p>4.1 I can demonstrate knowledge of multiplication and division facts 1-9. (4.1.1.1)</p> <p>4.2 I can solve whole number division problems as great as 3 digit numbers by 2 digit numbers. (4.1.1.6)</p> <p><b>[Grade 4] Unit 5: Geometry (3 ½ weeks)</b> <b>Approximate dates: January 11 – February 8, 2016</b></p> <p>5.1 I can identify and describe different types of triangles in various contexts. (4.3.1.1)</p> <p>5.2 I can identify, draw and describe quadrilaterals in various contexts. (4.3.1.2)</p> <p>5.3 I can measure angles in geometric figures and in real-world objects with a protractor. (4.3.2.1)</p> <p>5.4 I can compare angles according to size. (4.3.2.2)</p> <p>5.5 I can find the area of common quadrilaterals (square and rectangles). (4.3.2.3)</p> <p>5.6 I can find the areas of different geometric figures and real-world objects. (4.3.2.4)</p> <p>5.7 I can identify and apply translations (slides), reflections (flips), or rotations (turns) to figures. (4.3.3.1) (4.3.3.2) (4.3.3.3)</p> <p>5.8 I can recognize that translations, reflections and rotations preserve congruency. (4.3.3.4)</p>	<p><b>[Grade 4] Unit 6: Rational Numbers I (4 weeks)</b> <b>Approximate dates: February 9 – March 11, 2016</b></p> <p>6.1 I can represent equivalent fractions with models. (4.1.2.1)</p> <p>6.2 I can locate fractions, including improper fractions and mixed numbers, on a number line. (4.1.2.2)</p> <p>6.3 I can compare fractions using a number line. (4.1.2.2)</p> <p>6.4 I can add and subtract fractions with like denominators using models. (4.1.2.3)</p> <p>6.5 I can prove the fraction and decimal equivalents for tenths, hundredths, halves and fourths. (4.1.2.6)</p> <p>6.6 I can read and write decimals through the thousandths place. (4.1.2.4)</p> <p>6.7 I can compare and order decimals using models. (4.1.2.5)</p> <p>6.8 I can round decimals to the nearest tenth. (4.1.2.7)</p> <p>6.9 I can organize data that may include fractions or decimals. (4.4.1.1)</p> <p><b>From 5<sup>th</sup> Grade YAG:</b></p> <p><b>[Grade 5] Unit 4: Algebra (4 weeks)</b> <b>Approximate dates: March 14 – April 15, 2015</b></p> <p>4.1 I can represent and create real-world situations with equations and inequalities. (5.2.3.2)</p> <p>4.2 I can determine if a given value for a variable makes an equation or inequality true. (5.2.3.1)</p> <p>4.3 I can apply the commutative, associative and distributive properties to solve problems involving whole numbers. (5.2.2.1)</p> <p>4.4 I can use the order of operations to solve problems involving whole numbers. (5.2.2.1)</p> <p>4.5 I can describe patterns of change and solve problems by creating and using rules, tables, spreadsheets and graphs. (5.2.1.1)</p> <p>4.6 I can use a rule or table to represent ordered pairs of positive numbers. (5.2.1.2)</p> <p>4.7 I can graph ordered pairs on a coordinate system. (5.2.1.2)</p> <p>4.8 I can create a graph using positive numbers from a rule or table. (5.2.1.2)</p> <p>4.9 I can evaluate expressions and solve equations with multiple variables when the values of all the variables, except one, are given. (5.2.3.3)</p> <p><b>[Grade 5] Unit 6: Rational Numbers II (5 weeks)</b> <b>Approximate dates: April 18 – May 20, 2016</b></p> <p>6.1 I can create and use decimals, fractions, mixed numbers, and improper fractions in various contexts. (5.1.2.4)</p> <p>6.2 I can locate fractions and decimal numbers on a number line. (5.1.2.3)</p> <p>6.3 I can compare and order fraction and decimal numbers. (5.1.2.3)</p> <p>6.4 I can read and write numbers from millionths to millions. (5.1.2.1)</p> <p>6.5 I can explain what happens to the value of a number when digits change by one in the tenths, hundredths, or thousandths place. (5.1.2.2)</p> <p>6.6 I can round numbers to the nearest tenth, hundredth, and thousandth. (0.1, 0.01, 0.001). (5.1.2.5)</p> <p>6.7 I can solve real-world and mathematical problems involving addition and subtraction of decimals in multiple ways. (5.1.3.1, 5.1.3.2, 5.1.3.3, 5.1.3.4)</p> <p>6.8 I can solve real world problems involving both fractions and decimals. (5.1.3.3, 5.1.3.4)</p> <p><b>[Grade 5] Unit 5: Data (2 weeks)</b> <b>Approximate dates: May 23 – June 3, 2015</b></p> <p>5.1 I can organize, create, and analyze double bar graphs, line graphs, spreadsheets, and tables with whole numbers, fractions, and decimals. (5.4.1.2)</p> <p>5.2 I can apply the concepts of mean, median, and range to interpret a set of data. (5.4.1.1)</p>