



6th GRADE CURRICULUM MAP - MATHEMATICS

Curriculum Maps are used as guidelines for instruction. As such, they are considered to be working documents rather than a static formula for teachers and students to follow. What this means is that there is flexibility to this map which allows for the instructor to respond to several factors: the particular needs of the current group of students, the incorporation of new material, and/or the subtraction of material. With this in mind, curriculum maps are analyzed by faculty and administration on a yearly basis for revisions. Articulation meetings also take place with the grade levels above and below to check for continuity of the curriculum.

Quarter	Content and Skills
<p><i>Quarter 1</i></p>	<p>Chapter 1 Place Value, Exponents, Estimation, and Number Sense -place value -exponents -comparing, ordering & rounding whole numbers -estimating sums, differences, products & quotients -properties of operations -mental math strategies -variables & expressions -properties of equality -solving equations -Problem Solving Skills-read & understand, plan & solve, look back & check</p> <p>Chapter 2 Decimals -comparing, ordering, rounding & estimating decimals -adding, subtracting, multiplying & dividing whole numbers & decimals -dividing by powers of ten -scientific notation -solving equations -Problem Solving Skills-interpreting remainders, write an equation</p>
<p><i>Quarter 2</i></p>	<p>Chapter 3 Number Theory & Fraction Concepts -factors, multiples, divisibility -prime & composite numbers -greatest common factor -least common multiple -equivalent fractions -improper fractions -mixed numbers -comparing & ordering fractions & decimals -Problem Solving Skills-make a table</p> <p>Chapter 4 Adding & subtracting fractions and Mixed Numbers -add & subtract fractions with like denominators -add & subtract fractions with unlike denominators -estimating sums & differences of fractions -add & subtract mixed numbers -Problem Solving Skills-look for a pattern</p>
<p><i>Quarter 3</i></p>	<p>Chapter 5 Multiplying and Dividing Fractions -multiplying fractions -estimating fractions -multiplying mixed numbers -dividing fractions -dividing mixed numbers -Problem Solving Skills-make an organized list</p> <p>Chapter 6 Ratio, Rates, Proportions, Similarity & Scale Drawings -understanding ratios -equal ratios -rates & unit rates -understanding proportions -solving proportions -use cross products -scale drawings & maps -Problem Solving Skills-use objects</p> <p>Chapter 7 Percents -understanding fractions, decimals & percents -mental math using percents -estimating percents -finding a percent -sales tax & discount -percent of increase & decrease -simple interest -Problem Solving Skills-solve a simpler problem</p>
<p><i>Quarter 4</i></p>	<p>Chapter 8 Integers, Rational Numbers and Coordinate Graphing -understanding, ordering & comparing integers -understanding rational numbers -adding, subtracting, multiplying, and dividing integers -graphing ordered pairs -graphing equations -Problem Solving Skills-choose an operation, work backward</p> <p>Chapter 10 Systems of Measurement, Perimeter, Circumference, Area, Surface Area & Volume -customary measurement -metric measurement -relating customary & metric measurements -elapsed time -perimeter -area of squares & rectangles -area of parallelograms & triangles -circumference & area of a circle -solid figures -surface area & volume</p> <p>Chapter 9 Lines, Angles, Polygons and Circles -geometric ideas -measuring & drawing angles -angle pairs -constructions -polygons -triangles -quadrilaterals -circles -congruent & similar figures -transformations -symmetry</p> <p>Chapter 11 Interpreting Data, Graphs and Probability -mean, median, mode & range -frequency tables & line plots -stem and leaf plots -bar, line & circle graphs -counting methods -calculating probability</p>