

SIXTH GRADE MATHEMATICS CURRICULUM MAP

Prepared by Steve Dunn

TIME FRAME	CONTENT	SKILLS	ASSESSMENTS	LEARNING STANDARDS
August-September	Add and subtract whole numbers Place value Rounding Estimating Problem solving	Add and subtract whole numbers accurately and quickly Identify place value from ones to millions Understand ordering by adding and subtracting by properly aligning numbers Rounding numbers by using compensation or compatible numbers Estimate numbers so you can use mental math Find a pattern to solve story problems	Daily quizzes, timed tests, homework, posttests	6.A.2 6.B.2 6.C.2a-b 8.C.2
October	Multiply and divide whole numbers Times tables Estimating Whole numbers and decimals Decimals Story problem strategy	Multiply whole numbers and divide one and two digit divisors Memorize times tables for accuracy and time Estimate quotients round to nearest whole number Round whole numbers and decimals Multiply and divide decimals Use guess and test and pictographs for problem solving	Quizzes, tests, timed test of 100 single digit multiplication and division problems and graphs	6.A.2 8.D.2
November	Data usage Mean, median, mode, range Reading graphs Stem-and-leaf plot Appropriate graph	Organizing and displaying data Use stem-and-leaf plot to find mean, median, mode and range Creating different kinds of line and double bar graphs and circle graphs Make stem-and-leaf plots to solve story problems Choose correct graphs for problem solving strategy	Graphing projects, homework, quizzes, short answer tests	6.2.2a-b 6.D.2
December	Fractions, mixed numbers and decimals	Relate, write, compare and order fractions, mixed numbers and decimals	Term tests, homework,	6.D.2 6.C.2a,b

	<p>Equivalent fractions Greatest common factor, least common multiple, least common denominator Prime and composite numbers Prime factorization Story problems</p>	<p>Find equivalent fractions Find the GCF, LCM, and LCD of fractions Use divisibility rules for 2,3,4,5,6,8,9,10,12 to determine if the number is divisible Use prime factorization tree for finding prime and composite numbers Use diagrams, guess and test, or patterns to solve story problems</p>	<p>quizzes, long answer tests, multiple choice tests, worksheets</p>	
January	<p>Add and subtract fractions, mixed numbers with like and unlike denominators Estimate sums and differences Problem solving strategy</p>	<p>Use fraction strips to add and subtract mixed numbers with different denominators Use models, mental math, or pencil and paper to add or subtract Round fractions to nearest whole number using clues such as fraction is greater than $\frac{1}{2}$ if the numerator doubled is larger than the denominator Use guess and test, work backwards, logical reasoning and making a table to solve story problems</p>	<p>Homework, quizzes, “fun” worksheets, long form test, term tests</p>	<p>10.B.2a-d 10.C.2a-c</p>
February	<p>Multiply and divide proper and mixed fractions Estimate products Problem solving</p>	<p>Use grid paper to find fractions try short cuts to simplify fractions Find estimated products of mixed numbers Use different methods to multiply and divide such as logical reasoning</p>	<p>Homework, “fun” worksheets, long answer questions, term tests</p>	<p>6.A.2 7.C.2a-b</p>
March	<p>Customary units of length, capacity, weight, and temperature Add and subtract, multiply and divide customary units Metric units of length, capacity and temperature</p>	<p>Identify customary units of measure Convert customary units by using the four operations of math Know metric units including prefixes, value, abbreviations and conversions Write ratios, find missing number in proportions, list outcomes, and find probabilities</p>	<p>Term tests, homework, memorize saying to learn order of metric units, and short question tests</p>	<p>7.A.2a,b 7.B.2a,b</p>

	Ratios, proportions, and probabilities Problem solving	Use logical reasoning and guess and test methods		
April	Fractions, decimals, percents Percent of a number Sales tax, discounts and simple interest Angles, line segments, triangles, quadrilaterals Congruent and similar Circle graphs Story problems	Relate fractions, decimals and percents Find a percent of a number Find sales tax, discounts and simple interests Identify and classify lines, angles, triangles, and quadrilaterals Identify the figures that are congruent and similar Read and make circle graphs Use logical reasoning, guess and test and equations	Graphs, quizzes, short answer tests and homework	7.C.2a,b 10.A.2a,b,c 10.B.2a-d 8.C.2
May	Polygon Rectangle, parallelogram, triangle Circle Prism Integers Graphing on a coordinate plane Problem solving	Find perimeter of a polygon Find area of rectangle, parallelogram, triangle Find circumference and area of a circle Find the volume of a rectangular prism Add and subtract integers Locate and graph ordered pairs Use graphs for solving problems	Term tests, graphs, homework, quizzes, short answer questions and matching tests	8.B.2 8.D.2 9.A.2a,b,c 9.B.2 9.C.2 8.A.2a-b 8.C.2