

KMS Connected Mathematics Program

Grade 6

Math

The goal of the math curriculum is for all students to communicate proficiently in mathematics. The curriculum is structured around mathematical concepts, processes, ways of thinking, skills, and problem solving. Mathematical concepts are embedded in the context of interesting problems through real applications, or mathematical situations. Students explore a series of connected problems, and develop skill and understanding of mathematical ideas.

<u>UNIT TITLES</u>	<u>CONCEPTS COVERED</u>
Bits and Pieces 1	Understanding Rational Numbers -Move among fractions, decimals, and percents; compare and order rational numbers; equivalence
Shapes and Designs	Two-Dimensional Geometry -Regular and non-regular polygons, special properties of triangles and quadrilaterals, angle measure, angle sums, tiling, the triangle inequality
Bits and Pieces II	Understanding Fraction Operations -Understanding and skill with addition, subtraction, multiplication, and division of fractions
Covering & Surrounding	Two-Dimensional Measurement -Area and perimeter relationships, including minima and maxima; area and perimeter of polygons and circles, including formulas
Variables & Patterns	Introducing Algebra -Variables; representations of relationships, including tables, graphs, words, and symbols
Bits and Pieces III	Computing With Decimals and Percents -Understanding and skill with addition, subtraction, multiplication, and division of decimals, solving percent problems
How Likely Is It?	Probability -Reason about uncertainty, calculate experimental and theoretical probabilities, equally-likely and non-equally-likely outcomes