



POMPERAUG REGIONAL SCHOOL DISTRICT 15
 Serving the Communities of Middlebury and Southbury, Connecticut

Region 15's K – 8 Math Curriculum Overview

	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Number and Operations	<u>Key Concepts/Skills:</u> Counting and Cardinality	<u>Key Concepts/Skills:</u> Addition, Subtraction, Place Value	<u>Key Concepts/Skills:</u> Addition, Subtraction, Place Value	<u>Key Concepts/Skills:</u> Place Value, Multiplication, Division, Fractions	<u>Key Concepts/Skills:</u> Place Value, Multiplication, Division, Fractions	<u>Key Concepts/Skills:</u> Place Value, Multiplication, Division, Fractions, Decimals
Algebraic Reasoning and Operations	<u>Key Concepts/Skills:</u> Problem Solving, Addition, Subtraction, Patterns	<u>Key Concepts/Skills:</u> Problem Solving, Addition, Subtraction, Patterns	<u>Key Concepts/Skills:</u> Problem Solving, Addition, Subtraction, Equivalence	<u>Key Concepts/Skills:</u> Problem Solving, Multiplication, Division, Patterns	<u>Key Concepts/Skills:</u> Problem Solving, Multiplication, Division, Patterns	<u>Key Concepts/Skills:</u> Problem Solving, Multiplication, Division, Patterns
Geometry	<u>Key Concepts/Skills:</u> Shapes, Relative Position	<u>Key Concepts/Skills:</u> Reasoning about Shapes	<u>Key Concepts/Skills:</u> Reasoning about Shapes and Attributes	<u>Key Concepts/Skills:</u> Reasoning about Shapes and Attributes	<u>Key Concepts/Skills:</u> Shape Classification, Symmetry, Problem Solving	<u>Key Concepts/Skills:</u> Shape Classification, Coordinate Planes, Problem Solving
Data and Measurement	<u>Key Concepts/Skills:</u> Describing and Comparing Measurable Attributes, Classifying, Sorting, and Counting	<u>Key Concepts/Skills:</u> Indirect Measurement, Data Relationships, Time	<u>Key Concepts/Skills:</u> Standard Measurement Estimation, Time, Money, Data Relationships	<u>Key Concepts/Skills:</u> Problem Solving, Standard Measurement, Time, Money, Estimation, Data Relationships	<u>Key Concepts/Skills:</u> Problem Solving, Estimation, Geometric Comparisons, Area, Perimeter, Data Relationships	<u>Key Concepts/Skills:</u> Problem Solving, Estimation, Geometric Comparisons Area, Perimeter, Data Relationships



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	Grade 6	Grade 7	Grade 8
Numerical and Proportional Reasoning	<u>Key Concepts/Skills:</u> Rational numbers Operations with fractions, decimal and percents Problem solving Numerical representations Quantitative relationships Estimation Measures and quantities Basic computation facts	<u>Key Concepts/Skills:</u> Rational numbers Scientific notation Fractions, decimal and percents Problem solving Numerical representations Quantitative relationships Estimation Measures and quantities	<u>Key Concepts/Skills:</u> Numeric relationships Ratios Proportion Number Sense Basic computation facts Equivalent forms of numbers number sequence
Algebraic Reasoning and Operations	<u>Key Concepts/Skills:</u> Quantitative relationships Equations Algebraic symbols Patterns Numeric representation in Tables, graph and stories Order of operations Distributive property	<u>Key Concepts/Skills:</u> Quantitative relationships Equations Algebraic symbols Equivalence Patterns and Linear relationships Numeric representation in Tables, graph and stories Order of operations Distributive property	<u>Key Concepts/Skills:</u> Patterns and Functions Data tables Graphs Slope y-intercepts, Linear Form ($y=mx+b$) Maintaining equality.
Geometry	<u>Key Concepts/Skills:</u> Geometric Comparisons Measurement Properties and characteristics of two dimensional shapes Geometric relationships Units, formulas and measurement tools Area and perimeter Symmetry	<u>Key Concepts/Skills:</u> Geometric Comparisons Measurement Properties and characteristics of two- and three-dimensional shapes Geometric theorems Location and geometric relationships Units, systems, formulas and measurement tools Area, perimeter, volume and surface area	<u>Key Concepts/Skills:</u> Geometric Comparisons; Measurement Polygons Solids Symmetry Pythagorean theorem Transformations Translations
Data and Measurement	<u>Key Concepts/Skills:</u> Data Relationships Stem and Leaf plots Collecting and organizing data Experimental and theoretical probability Analyzing data	<u>Key Concepts/Skills:</u> Data Relationships Prediction Numeric Communication Collect and organize data Experimental and theoretical probability Metric measurement	<u>Key Concepts/Skills:</u> Data Relationships Predictions Analyze data