

Fifth Grade Mathematics

<http://www.sad44.org/curriculum/math/math.html>

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
	<i>Length of units will vary: quarter divisions correspond with district assessments</i>			
Unit (order will vary: on-going skill development)	Numbers and Number Sense Computation	Geometry and Measurement	Mathematical Decision-making	Probability and Patterns
Strands	Numbers and Number Sense (A) Computation (B) Mathematical Reasoning (J)	Geometry (E) Measurement (F) Discrete Math (I)	Data Analysis(C) Mathematical Reasoning (J) Mathematical Communication (K)	Patterns, Relations, and Functions (G) Algebraic Concepts (H) Probability (D)
	http://www.state.me.us/education/lres/math.htm			
Activities	Compare, read, write, and order whole numbers and decimals to ten thousandths Apply number properties to real world situations Do mental math Add and subtract negative numbers Multiply and divide decimals (w/ zeros) Add, subtract, multiple and divide fractions and mixed numbers Convert mixed numbers to improper fractions	Compare, classify, draw, and manipulate 2-D and 3-D shapes Use spatial reasoning Explore congruency, symmetry, and tessellation Use formulas for area, perimeter Know customary measures and estimate Use map scales	Use statistics, tables, and graphs to communicate ideas and information in presentations Use a coordinate system with vertices Construct and use line and bar graphs Analyze presentations for bias and deception Demonstrate multiple paths to conclusions in problem solving Use matrices to solve problems	Describe relationships with tables, graphs, equations Use patterns to solve problems Find variables for unknowns Describe probability of simple events in both fraction and ratio forms Model algebraic equations with manipulatives
Assessments	Read, Write, Compare Numbers A-5.1 Teacher-made tests Math facts	Measurement E-2;F-2) Teacher made (Integrated with science or social studies projects)	Graph	Algebra

Vocabulary	Improper fraction Mixed number Numerator Denominator Associative and Communicative principles (in addition and multiplication) Factor, product, multiple, quotient, divisor, dividend, remainder Ratio	Tessellations Point, ray, parallel lines Right, acute, and obtuse angles Line segment, symmetry Congruence, Similarity Transformations: flips, rotations Metric terms, symbols, and abbreviations	Mean Median Mode Range Matrices Axis, origin, scale Quadrant	Variable Algebraic equation Ratio
Resources	<p> http://illuminations.nctm.org/index.aspx This site enables you to search by grade or standard. http://illuminations.nctm.org/swr/index.asp This site is filled with web resources by grade level and standard http://nlvm.usu.edu/en/nav/vlibrary.html Interactive math tools that allow you to pick the grade span and the standard. http://www.lessonplanspage.com/Math.htm This site has lesson plans for math by grade span. http://www.aaamath.com/ This site is by grade levels and math topics. <i>Investigations: Geometry Unit; Math Your Way: Make It and Take It;</i>Addison Wesley text </p>			