

Fourth 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	Probability	Variables	Transformations
Strands	Numbers and Number Sense (A) Computation (B) Mathematical Reasoning (J)	Data Analysis (C) Probability (D) Computation (B) Mathematical Reasoning (J)	Algebra Concepts(H) Mathematical Reasoning (J) Patterns, Relations, and Functions (G)	Geometry (E) Measurement (F) Computation (B)
http://www.state.me.us/education/lres/math.htm				
Activities	Read and use numbers to 1,000,000; Decimals: hundredths Multiplication fact drills and quizzes Add and subtract proper fractions: decimals Multiple decimals Introduce improper fractions Divide by 2 digit divisor Multiple 3digit x 2 digit	Compare graphs Use data to solve problems Collect, use, and analyze data Read and interpret data Use coins, spinners, and dice to understand "Chance" Conduct experiments	Use numbers, shapes, and graphs to solve a problem Use open sentences Develop simple formulas to solve a problem Use variables "Problem of the Day"	Set up and use coordinate graph Identify 3D shape from 2D view Experiment with shapes and figures Investigate properties of geometric figures Measure using metric and conventional units: length, mass, capacity and volume Make change Add and subtract time
Assess-ments	Understanding Whole Numbers (Local) A,1	Probability (Local) C,2; D,2	Variables (MEA) H,1; J,1	Transformations (local) E,3
Vocabu-lary	Improper fraction Mixed number Numerator Denominator Associative and Communicative principles (in addition and multiplication) Factor, product, multiple, quotient, divisor, dividend, remainder	Observe Measure Experiment Line plot Stem and leaf plot B-Bar, Line, and Picture graphs Unfair game	Variable Set Venn Diagram	Tessellations Axis, origin, scale Point, ray, parallel lines Right, acute, and obtuse angles Line segment, symmetry Congruence, Similarity Transformations: flips, rotations Metric terms, symbols, and abbreviations

Resources	<p>http://illuminations.nctm.org/index.aspx This site enables you to search by grade or standard.</p> <p>http://illuminations.nctm.org/swr/index.asp This site is filled with web resources by grade level and standard</p> <p>http://nlvm.usu.edu/en/nav/vlibrary.html Interactive math tools that allow you to pick the grade span and the standard.</p> <p>http://www.lessonplanspage.com/Math.htm This site has lesson plans for math by grade span.</p> <p>http://www.aaamath.com/ This site is by grade levels and math topics.</p> <p><i>Investigations: Geometry Unit; Math Your Way: Make It and Take It; Addison Wesley text</i></p>
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