


SMMUSD GRADE FOUR MATHEMATICS CURRICULUM GUIDE

TRIMESTER 1		TRIMESTER 2		TRIMESTER 3	
<p>Unit 1: Aug-Sept Whole Number Addition and Subtraction Inspirational Math Week from Stanford’s YouCubed https://www.youcubed.org/week-inspirational-math/</p>	<p>Unit 2: Sept-Oct. Multiplication, Division, Properties of Operations & Measurement</p>	<p>Unit 3: Nov-Dec Multi-digit Multiplication and Division, Using \times/\div Strategies with Larger Numbers, Variables & Measurement</p>	<p>Unit 4: Jan-Feb Fraction Equivalence and Comparison, Decompose/Compose Apply Fractions, Multiplying Fractions by Whole Numbers & Decimal Equivalent</p>	<p>Unit 5: Feb-March Operations with Fractions, Analyzing Two-Dimensional Shapes, Angle Measurement</p>	<p>Unit 6: March-May Data, Measurement Conversions & Algebra</p> <p>Unit 7: Step-up to 5th grade</p>
<p>Understanding of place value from 1 to 1,000,000 and rounding multi-digit whole numbers</p> <p>Whole number addition and subtraction</p> <p>Solve multi-step word problems posed with whole numbers</p> <p>*Chap.7, 11, & 12 need to be addressed throughout the entire year.</p>	<p>Factors and multiples, prime and composite</p> <p>Models and properties of operations in multiplication and division</p> <p>Estimate or mentally calculate products</p> <p>Develop fluency with efficient procedures</p> <ul style="list-style-type: none"> Apply area and perimeter formulas and real world situations 	<p>Relationship to multiplication and multi-digit division</p> <p>Using \times and \div strategies with large numbers</p> <p>Estimate or mentally calculate quotients</p> <p>Rewrite problem situations using variables</p> <p>Numeric and Non-numeric Patterns</p>	<p>Equal Sharing and Multiple Groups CGI problem types</p> <p>Fraction equivalence and comparison</p> <p>Decompose/Compose fractions</p> <p>Decimal fraction comparison and notation</p> <p>Multiply fractions by a whole number</p>	<p>Addition and subtraction of fractions and mixed numbers</p> <p>Analyzing, comparing and classifying 2-D shapes</p> <p>Angle measurement, angle parts are additive Symmetry</p> 	<p>Measurement and Conversions</p> <p>Interpret data (line plots)</p> <p>Multiplication of larger numbers and decimals Multi digit divisors</p>
<p>MY MATH Chapters 1, 2</p> <p>Note:</p> <p>4.OA.3, 4 NBT.1, 2, 3, 4</p>	<p>MY MATH Chapters 3, 8*, 4**, 6, 13 *Ch.8 only Lessons 1 and 2 **Can incorporate CH.12, Lessons 5 conversion</p> <p>4.OA.1, 2, 3, 4 4.NBT.1, 5, 6 4.MD.3</p>	<p>MY MATH Chapters 5, 7 See p. 9 in Extending Children’s Mathematics (ECM) for partitive division</p> <p>4.OA.3, 5 4.NBT. 3, 4, 5, 6</p>	<p>Extending Children’s Mathematics book Chapters 1, 2, 3, and p. 30</p> <p>MY MATH Chapters 8, 10</p> <p>4.NF.1, 2, 3b, 4.NF. 5,6</p>	<p>MY MATH Chapters 9, 13, 14</p> <p>4.NF. 3, 4 4.MD.3, 5a-b, 6, 7 4.G.1, 2, 3</p>	<p>MY MATH Chapters 11, 12</p> <p>4.MD.1, 2, 4 Spiral review</p> <p>Test Item bank Step up to 5th grade (online)</p>

Structures to Support CA Content Standards/CGI/Problem Solving: Real World Math, Problem Analysis “Think Time”, Partner Collaboration, Productive Struggle, Whole Group Student Share

Domains: *OA: Operations & Algebraic Thinking; MD: Measurement & Data; NBT: Numbers & Operations in Base Ten; NF = Numbers and Operations—Fractions G: Geometry*

Standards for Mathematical Practices:

- MP1: Make sense of problems and persevere in solving them
- MP2: Reason abstractly and quantitatively
- MP3: Construct viable arguments and critique the reasoning of others
- MP4: Model with mathematics

- MP5: Use appropriate tools
- MP6: Attend to precision
- MP7: Look for and make use of structure
- MP8: Look for and express regularity in repeated reasoning

Mathematical Practices 1-3-6 = connections to EL/ELD and NGSS standards: See Overview Curriculum Guide for details of grade expectations

For Grade Four Mathematics, instructional time should focus on three critical areas:

- (1) Developing understanding and fluency with multi-digit multiplication, and developing understanding of dividing to find quotients involving multi-digit dividends.**
- (2) Developing an understanding of fraction equivalence, addition and subtraction of fractions with like denominators, and multiplication of fractions by whole numbers.**
- (3) Understanding that geometric figures can be analyzed and classified based on their properties such as having parallel sides, perpendicular sides, particular angle measures, and symmetry.**



SANTA MONICA-MALIBU UNIFIED SCHOOL DISTRICT