


SMMUSD GRADE FIVE MATHEMATICS CURRICULUM GUIDE

TRIMESTER 1 *critical area #2		TRIMESTER 2 *critical area #1			TRIMESTER 3 *critical area #3	
<p>Unit 1: Aug-Sept (Week 1 & 2) Whole # place value</p> <p>*Multiplication</p> <p>Division (1-digit)</p> <p>Stanford: YouCubed Week of Inspirational Math to support setting class norms, routines, and Mathematical Growth Mindset! www.youcubed.org</p>	<p>Unit 2: Sept (Week 3)-Oct *Whole # Division (2-digit)</p> <p>Place value decimals</p> <p>Addition and Subtraction of Decimals</p>	<p>Unit 3: Nov Operations and Algebraic Thinking</p>	<p>Unit 4: Dec *Fractions and Decimals Relationship- (division as fraction)</p> <p>*Add & Subtract Fractions</p> <div align="center">  <p>SMMUSD SANTA MONICA MALIBU UNIFIED SCHOOL DISTRICT</p> </div>	<p>Unit 5: Jan *Multiplication and Division of Fractions</p> <p>Multiply and Divide Decimals</p>	<p>Unit 6: Feb-March Fraction & Measurement Applications</p> <p>Measurement & Data</p> <p>*Geometry- Volume Must begin volume BEFORE spring break!</p>	<p>Unit 7: April-May *Geometry- Volume end</p> <p>Other Geometry</p>
<p>Properties of Operations</p> <ul style="list-style-type: none"> * Multi-digit add and subtract * Multiplication using a variety of strategies. Multi-digit whole numbers multiplication using algorithm Whole number quotients (up to four-digit dividends and 2-digit divisors) using strategies (equations, arrays, and/or area models) 	<ul style="list-style-type: none"> Properties of Operations Understand decimal place value. Understand to the relationship between the adjacent places in decimal #s Decimal addition and subtraction with varied strategies. Read, write, & compare decimals Understand relationship between multiplication and division 	<ul style="list-style-type: none"> Write & interpret expressions Analyze patterns & relationships Coordinate plane plotting (quadrant I) Generate two numerical patterns using two given rules 	<ul style="list-style-type: none"> Review 4th gr. fraction concepts Addition and subtraction of fractions and decimals applications Measurement applications with fractions *Use equivalent fractions as a strategy to add & subtract fractions (explore other strategies as well) *Interpreting a fraction as a division. Study relationships. <p>$\frac{4}{5} = 4 \div 5$ $\frac{8}{10} = .80$ (5 kids share 4 items) <i>compared to</i></p>	<ul style="list-style-type: none"> Measurement applications with fractions Equal share Problems * Perform operations with decimals (make connection between decimal & fractions) * Interpreting fraction multiplication as scaling * Multiply fractions * Dividing unit fractions by whole numbers and whole numbers by unit fractions using story contexts Find the area of a rectangle with fractional sides 	<ul style="list-style-type: none"> Conversions applications with fractions Equal share problems Convert like measurements within the metric system *Understand concepts of volume Make line plots to display data with measurements in fractions of a unit. 	<ul style="list-style-type: none"> *Understand concepts of volume Classify two-dimensional figures into categories based on their properties

			$\frac{5}{4} = 5 \div 4 = \frac{125}{100} = 1.25$ (4 kids share 5 items)			
Unit 1: MY MATH Ch. 1(lessons 1-2) & 2, 3 5.NBT.1, 2 5.NBT.5, 6	Unit 2: MY MATH Ch. 1 (lessons 3-9), 4, 5 5.NBT .1, .3a, 3b 5.NBT .4, 6 5.NBT .7 Teach Chapter 6 in UNIT 5	Unit 3: MY MATH Ch. 7 5.OA.1 ,2, 3 5. G.1, 2	Unit 4: MY MATH Ch. 8, 9 5.NF.1, 2, 3 Chapter 8 provides a bridge from 4 th grade	Unit 5: MY MATH Ch. 10, 6 Extending Children’s Mathematics (ECM) Chapters 1-2 and p33 5.NF. 4a, 4b, 5a, 5b 5.NF. 6, 7a, 7b, 7c 5.NBT. 4, 7	Unit 6: MY MATH Ch. 11 & 12 (lessons 8, 9) 5.NF.1, 2, 3 5.NF. 4a, 4b, 5a, 5b 5.NF. 6, 7a, 7b, 7c 5.MD 1, 2, 3a, 3b, 4, 5.MD 5a, 5b, 5c	Unit 7: MY MATH Ch. 12 (lesson 10, 11) 5. MD. 3a, 3b, 4, 5. MD. 5a, 5b, 5c Ch. 12 (lessons 1-7) as needed 5.G .3, 4

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

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

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 Five Mathematics, instructional time should focus on three Critical Areas:

- (1) Developing fluency with addition and subtraction of fractions, and developing understanding of the multiplication of fraction and of division of fractions in limited cases (unit fractions divided by whole numbers and whole numbers divided by unit fractions).**
- (2) Extending division to two digit divisors, integrating decimal fractions into the place value system and developing understanding of operations with decimals to hundredths, and developing fluency with whole number and decimal operations.**
- (3) Developing understanding of volume.**

