SMMUSD GRADE FIVE MATHEMATICS CURRICULUM GUIDE - Math Milestones						
TRIMESTER 1 *critical area #2		TRIMESTER 2 *critical area #1			TRIMESTER 3 *critical area #3	
Unit 1: **Aug-Sept (Week 1 & 2)** Whole # place value *Multiplication Division (1-digit) Stanford: YouCubed **Week of Inspirational Math** to support setting class norms, routines, and Mathematical Growth Mindset! www.youcubed.org	**Unit 2:** **Sept (Week 3)-Oct** *Whole # Division (2-digit) Place value decimals Addition and Subtraction of Decimals	**Unit 3: Nov** Operations and Algebraic Thinking	**Unit 4: Dec** *Fractions and Decimals Relationship-(division as fraction) *Add & Subtract Fractions	**Unit 5: Jan** *Multiplication and Division of Fractions Multiply and Divide Decimals	**Unit 6: Feb-March** Fraction & Measurement Applications Measurement & Data *Geometry- Volume Must begin volume BEFORE spring break!	**Unit 7: April-May** *Geometry- Volume end Other Geometry
Properties of Operations ●* 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) Math Milestones PADLET	● 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	● Write & interpret expressions ● Analyze patterns & relationships ● Coordinate plane plotting (quadrant I) ● Generate two numerical patterns using two given rules	● 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. $\frac{4}{5} = 4 \div 5$ $\frac{8}{10} = .80$ (5 kids share 4 items) *compared to*	● 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	● 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.	● *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)			
Administer CGI Assessment/Task						
Unit 1: MY MATH: Ch. 1 (lessons 1-2) & 2, 3 **5.NBT.1, 2** **5.NBT.5, 6** **OpenUp Resources Unit 4**	**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 **OpenUp Resources 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 4ᵗʰ grade **OpenUp Resources Units 2, 3, 6, 7 = trimester 2**	**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** **OpenUp Resources Units 1, 7, 8 = trimester 3**	**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

Math Milestones
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.   Detailed GVC Guide