

SMMUSD MATH 6 CURRICULUM GUIDE

SEMESTER 1				SEMESTER 2		
Fall FIAB Division of Fractions by Fractions				Winter IAB The Number System		
Unit 1 2 weeks Aug-Sept <i>Prime Time</i> <i>See overview and detailed guides for order</i> UNIT IABS for the year	Unit 2 5 weeks Sept-Oct <i>Comparing Bits & Pieces</i> Math Milestones Tasks Ratios & Proportional Relationships *Multidigits Numbers, *Factors & Multiples	Unit 3 4.5 weeks Oct-Nov <i>Let's be Rational</i> *Divide Fraction by Fraction & *Rational Number System	Unit 4 4.5 weeks Nov-Dec <i>Covering & Surrounding</i> Geometry	Unit 5 3 weeks Jan Covering & Surrounding Investigate 4 <i>Decimal Ops</i> The Number System	Unit 6 5 weeks Feb-March <i>Variables & Patterns</i> Expressions & Equations *Algebraic Expressions *Dependent & Independent Variables *One-Variable Expressions & Equations	Unit 7 4 weeks April-May <i>Data About Us</i> Statistics & Probability
Stanford: YouCubed Week of Inspirational Math to support setting class norms, routines, and Mathematical Growth Mindset! www.youcubed.org Properties of numbers—used to solve problems  SANTA MONICA-MALIBU UNIFIED SCHOOL DISTRICT	OpenUp Units 2-3 Ratios and Equivalence used to solve problems Math Milestones 6:10; 6:4 Begin Data work using IM and GPAs	OpenUp Unit 4 Operations with Fractions OpenUp Unit 7 Math Milestones 6:1; 6:5; 6:9; 6:4; 6:3	OpenUp Unit 1 Measurement and development of formulas Math Milestones 6:11; 6:12	OpenUp Unit 3 Decimals as fractions and Percent knowledge OpenUp Unit 5 Math Milestones 6:2	Perf Task Cell Phone Plan Symbolic expressions and Variable equations OpenUp Unit 6 Math Milestones 6:6; 6:8; 6:13	Collect, describe, and analyze data OpenUp Unit 8 Math Milestones 6:7
6.NS.4 6.EE.1 6.EE.2 6.NS.2	6.RP.1 6.RP.2 6.RP.3 a, b, c 6.NS.4	6.NS.1 6.NS.3 6.NS.4 6.NS.6	6.NS.8 6.EE.2 a, c 6.EE.3 6.EE.4	6.NS.1 6.NS.2 6.NS.3 6.EE.2	6.NS.6 b, c 6.NS.8 6.EE.1 6.EE.2 a, b, c	6.NS.6 6.NS.7 6.EE.2 a 6.RP.3 b

6.NS.3 	6.NS.5 6.NS.6 a, c 6.NS.7 a, b, c, d Fall FIAB Division of Fractions by Fractions	6.EE.2 a, b, c 6.EE.3 6.EE.6 6.EE.7	6.EE.6 6.EE.9 6.G.1 6.G.2 6.G.3 6.G.4 *Unit Project: design an aquarium or lunchbox 6.NS.6	6.EE.3 6.EE.5 6.EE.6 6.EE.7 6.RP.1 6.RP.2 6.RP.3 c Winter IAB The Number System	6.EE.3 6.EE.4 6.EE.5 6.EE.6 6.EE.7 6.EE.8 6.EE.9 6.RP.1 6.RP.2 6.RP.3 a, b, d *Pi Day Project to graph diameter and circumference*	6.SP.1 6.SP.2 6.SP.3 6.SP.4 6.SP.5 a, b, c, d
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**Domains: RP: Ratios and Proportional Relationships; NS: The Number System; EE: Expressions and Equations;
SP: Statistics and Probability; G = Geometry**

Math Milestones

For Grade Six Mathematics, instructional time should focus on four **Critical Areas**:

- (1) Connecting ratio and rate to whole number multiplication and division, and using concepts of ratio and rate to solve problems.**
- (2) Completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers.**
- (3) Writing, interpreting, and using expressions and equations**
- (4) Developing understanding of statistical thinking.**

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

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

[Detailed GVC Guide](#)

