

SMMUSD MATH 7 CURRICULUM GUIDE

SEMESTER 1			SEMESTER 2				
Unit 1 6 weeks Aug-Sept-Oct	Unit 2 4 weeks Oct - Nov	Unit 3 5 weeks Nov - Dec	Unit 4 6 weeks Jan - Feb	Unit 5 3 weeks Feb - March	Unit 6 2 weeks April	Unit 7 3 weeks May	Unit 8 1 week May - June
YouCubed Week of Inspirational Math MDTP Accentuate the Negative – add, subtract, multiply, divide rational numbers and distributive property	Stretching & Shrinking - scale factor, similar figures, and scale drawings	Comparing & Scaling - proportions, percent, ratios, rates and unit rates Include: lessons on percent of change, discount, mark-up, simple interest, tip and tax, total cost	Moving Straight Ahead – constant of proportionality, proportional relationships; solving equations and inequalities	Shapes & Designs – angle relationships and angle equations, area of polygons and composite shapes Filling & Wrapping - area and circumference of circles	Filling & Wrapping - volume and surface area of prisms	Samples & Populations - data analyzation, sampling methods Include: biased and unbiased samples and survey questions	What Do You Expect - probability
Develop and use algorithms for rational operations; Solve problems using rational numbers	Understand similar figures; Analyze changes in area and perimeter	Ratios, Rates, and Percent; Develop and use strategies for solving problems requiring proportional reasoning	Recognize linear relationships by constant rate of change; Understand equality and develop algebra skills	2D Geometry; Understand and analyze properties and relations; area and circumference of circles	Understand measuring surface area, volume, and; Extend similarity and scale factor to 3-D figures	Deepen understanding of the process of statistical investigation and apply to sampling; Explore measures of central tendency	Experimental and theoretical probabilities; Make connections between probability, rational numbers, geometry, stats, science, and business
7.NS.1 7.NS.2 7.NS.3 7.EE.A.1	7.RP.2 a, b 7.RP.3 7.EE.3 7.EE.4 a 7.G.1	7.RP.1 7.RP.2 7.RP.3 7.NS.3 7.EE.3 7.EE.4 a	7.RP2 7.EE.1 7.EE.2 7.EE.3 7.EE.4 a, b	7.EE.2 7.EE.4 7.G.2 to 7.G.6	7.NS.3 7.EE.1 7.EE.2 7.G.1 7.G.3 7.G.4 7.G.6	7.RP.2 7.NS.1 7.SP.1 to 7.SP.7a	7.RP.2 a 7.RP.3 7.SP.5 7.SP.6 7.SP.7 7.SP.8



Domains: RP: Ratios and Proportional Relationships; NS: Number System; EE: Expressions & Equations; SP: Statistics & Probability; G: Geometry

For Grade Seven Mathematics, instructional time should focus on four critical areas:

- (1) Developing understanding of and applying proportional relationships.
- (2) Developing understanding of operations with rational numbers and working with expressions and linear equations.
- (3) Solve problems involving scale drawings and informal geometric constructions, and working with two- and three- dimensional shapes to solve problems involving area, surface area, and volume.
- (4) Drawing inferences about populations based on samples

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

MP5: Use appropriate tools

MP2: Reason abstractly and quantitatively

MP6: Attend to precision

MP3: Construct viable arguments and critique the reasoning of others

MP7: Look for and make use of structure

MP4: Model with mathematics

MP8: Look for and express regularity in repeated reasoning



SANTA MONICA-MALIBU UNIFIED SCHOOL DISTRICT