2020 - 2021
Year-at-a-Glance Snapshot
Mrs. Smith Grade 7 Math

August 17-September 30

Module 2: Operating with Signed Numbers
Tentative Time: 27 days

Topic	Standards	Mathia Workspaces	Tentative Timeframe	Resources, Supplemental, & Notes
1: Adding and Subtracting Rational Numbers ● Adding Rational Numbers ● Subtracting Rational Numbers	NS.1 a-c NS. 3	4	8 days	● Math Tools: ○ Braining Camp: Counters & Number lines ● Prior Knowledge: Number line patterns (Smaller Left, Bigger Right), Combine Like Terms, simplifying expressions, fact families ● Vocabulary: Zero Pair, Additive Inverse, Opposite
2: Multiplying and Dividing Rational Numbers ● Multiplying Rational Numbers ● Dividing Rational Numbers ● Using Order of Operations with Negative and Positive Integers	NS 1 d NS 2 a-d NS 3 RP 3	6	19 days	

October 1- December 18

Modules 3 and 5: Reasoning Algebraically and Constructing and Measuring
Tentative Time: 47 Days

Topic	Standards	Mathia Workspaces	Tentative Timeframe	Resources, Supplemental Work, & Notes
1: Algebraic Expressions ● Variable Substitution ● Evaluate Algebraic Expressions ● Distributive Property and Factoring ● Combine Like Terms	EE.3 EE.1 EE.2	6	8 days	● Math Tools: ○ Braining Camp: Algebra Tiles ○ Patty Paper ○ Bar Models ○ Protractors ○ Desmos: Graphing ○ Graph Paper ● Prior Knowledge:Writing equations, solving one step equations, graphing inequalities, graphing on the coordinate plane ● Vocabulary: Inequality, Equation, Variable, Supplementary, Complementary, Vertical Angles, Linear Equations, Intersecting Lines
2: Two-Step Equations and Inequalities ● Modeling Equations with Bar Models ● Writing and Solving 2-Step Equations ● Writing and Solving 2-Step Inequalities	EE.4a	19	20 days	
1: Angles and Triangles (Module 5) ● Types of Angles: Supplementary, Complementary, and Vertical Angles ● Construct Triangles	G.2 G.5	2	6 days	
3: Multiple Representations of Equations ● Graphing Equations & Inequalities ● Linear Graphs and Tables ● Linear Equations	EE. 2 EE.4a EE.4	(part of topic 2's workspaces)	13 days	

January 11- March 26

Module 1: Thinking Proportionally
Tentative Time: 51 Days

Topic	Standards	Mathia Workspaces	Tentative Timeframe	Resources, Supplemental Work, & Notes
1: Circles and Ratio ● Finding Circumference and Area	G.4	2	5 days	● Math Tools: ○ Number Strings: Pam Harris' Course ○ Compass ○ Desmos: Graphing ● Prior Knowledge: Ratio notation, Scaling, Unit Rate, Equivalent Ratios, Coordinate Plane and Tables, Calculating basic percents ● Vocabulary: Circumference, Area, Radius, Diameter, Scaling Up or Down, Direct Variation, Proportional, Not Proportional, y=kx, Constant of Proportionality, Percent of Increase, Percent of Decrease, Commission, Simple Interest
2: Fractional Rates ● Unit Rate ● Solving Proportions	RP. 1 RP. 2c RP. 3	7	6 days	
3: Proportionality ● Proportional and NonProportional Relationships on Graphs and Tables ● Finding the Constant of Proportionality	RP. 2a-d	4	20 days	
4: Proportional Relationships ● Calculate Percents, Mark Ups, Mark Downs, Tips, Commission, Simple Interest, Sales Tax, Income Tax, Fees, and Percent of Increase and Decrease ● Scale Drawings	RP. 3 G.6 G.1	12	20 days	

April 12-30 and May 24-June 4

Module 5 and 4: Constructing and Measuring and Analyzing Populations and Probability
SBAC Testing Review
Tentative Time: 15 days

Topic	Standards	Mathia Workspaces	Tentative Timeframe	Related Supplemental Work & Enrichment Activities
2: Three- Dimensional Figures ● Cross Sections ● Volume of Right Prisms	G. 3 G.6	5	4 days	● Math Tools: ○ Play Dough & Wire ○ Dice ● Prior Knowledge: names of 3-D shapes, Probability, ● Vocabulary: Experimental Probability, Theoretical Probability, Cross Section, Compound,
1: Introduction to Probability ● Probability Models ● Determine Probability of Simple Events ● Use simulations to explore the difference between theoretical and experimental probability	SP. 5 SP. 7 SP. 6 SP. 7a-b RP. 3	3	4 days	
2: Compound Probability ● Organizing outcomes with tree diagrams, arrays, lists,	SP. 6 SP. 7a-b SP. 8 a-c	3	3 days	
3: Drawing Inferences ● Collect random samples to to represent data	SP.1 SP.2 SP.3 SP.4	3	4 days	