Marble Falls ISD

Year at a Glance 2019-2020
Math 8

Creation Date: 4/25/2019

Revision Date: August 5, 2019

Unit Name	Unit 8-1 Numbers 8/26 – 9/9 (10 days)	Unit 8-2 Equations and Inequalities with Variables on Both Sides 9/10 – 9/20 (9 days)	Unit 8-3 Linear Relationships, Scatterplots, and Slope 9/23 – 10/22 (20 days)	Unit 8-4 Linear Functions 10/23 – 11/5 (18 days)	Unit 8-5 Statistics and Samples 11/18 – 11/22 (5 days)	Unit 8-6 Geometry Relationships 12/2 – 12/20 (15 days)
TEKS	New: 8.2B, 8.2A, **8.2D**, 8.2C	Spiraled: **8.2D** New: 8.8A, 8.8B, **8.8C**	Spiraled: **8.8C** New: 8.4A, **8.4C, 8.4B**, 8.5A,8.5B, 8.5F,8.5E,8.11A**, 8.5D,** 8.5C	Spiraled: **8.4B, 8.4C** New: **8.5I, 8.5G,** 8.5H, 8.9A	Spiraled: **8.5D,** 8.5C New: 8.11B, 8.11C	Spiraled: 8.4A, 8.2B New: 8.8D, 8.6C, **8.7C**, 8.7D
Big Ideas	1. Order numbers 2. Sets of real numbers 3. Approximate value of number on number line 4. Scientific notation	5. Solve equations and inequalities 6. Write equations and inequalities 7. Write real world problem with equations and inequalities	1. Rate of change from table or graph 2. Unit rate as slope 3. right triangles for slope 4. Proportional relationships with tables graphs equations in form of y = kx 5. Distinguish between proportional and non-proportional using tables, graphs, equations 6. Direct variation 7. Contrast bivariate sets of data suggesting linear and non-linear relationships 8. Scatterplot linear and non-linear associations 9. Use trend line to make predictions	1. Identify functions 2. Write equation in y = mx+b from table, graph, equation, verbal 3. Identify examples of proportional and non-proportional relationships 4. Linear non-proportional with tables graphs equations 5. Solution to systems of equations from a graph	1. Mean absolute deviation 2. Random samples	1. Pythagorean theorem 2. Models of Pythagorean theorem 3. Distance between two points on coordinate plane with Pythagorean theorem 4. Angle sum and exterior angle of triangles, angles in parallel lines cut by transversal, angle triangle similarity

Unit Name	Unit 8-7 Transformational Geometry 1/7 – 1/31 (18 days)	Unit 8-8 Volume and Surface Area 2/3 – 2/24 (15 days)	Unit 8-9 Personal Financial Literacy 2/25 – 3/6 (9 days)	Unit 8-10 STAAR Review 3/9 – 4/6 (14 days)	Unit 8-11 Fractions 4/13 – 4/24 (10 days)	Unit 8-12 Distribution and Solving Multi-Step Equations 4/27 – 5/8 (10 days)	Unit 8-13 Polynomials 5/11 – 5/22 (10 days)
TEKS	Spiraled:**8.8C** New: 8.3A, 8.10A, **8.10C**, 8.3B, 8.10B, **8.3C**, 8.10D	Spiraled: **8.3C, 8.10C** New: 8.6A, **8.7A**, 8.6B, **8.7B**	Spiraled: **8.5I** New: 8.12A, 8.12B, **8.12D**, 8.12C, 8.12F, 8.12E, 8.12G	Spiraled for Review: Based on data Spiraled: **8.2D, 8.4B, 8.4C, 8.5G, 8.5I, 8.8C, 8.3C, 8.7A, 8.7B, 8.7C, 8.10C, 8.5D, 8.12D**	6.1E, 6.2A, 6.2B	**Into to algebra TEKS** A.5A, A.5B, A.12E, A.10A, A.10C, A.10E, A.10F	**Into to algebra TEKS** A.10A, A.10B, A.10D, A.10C, A.10E, A.10F
Big Ideas	1. Translations reflections rotations 2. Effect of scale factor on dilations 3. Ratio of sides of similar shapes proportional including dilation 4. Orientation and congruence of rotations, reflections, translations, dilations 5. Transformations that preserve congruence or not 6. Attributes of a shape and its dilation on coordinate plane 7. Effect of linear and area measure on dilated shapes	1. Volume of cylinders cones spheres 2. Lateral and total surface area 3. Volume in terms of base and height 4. Model relationship between volume of cylinder and cone	1. Simple and Compound interest 2. Interest and loan length and cost of credit 3. Repaying loan 4. Investing 5. Advantages and disadvantages of different payment methods 6. Financially responsible decisions 7. Estimate cost of college	1. Math skills and problem solving can be applied in many situations. 2. Real world problems can be represented and solved in various ways.	1. Generate equivalent forms of rational numbers including whole numbers, fractions and decimals. 2. Model addition and subtraction involving fractions with words and numbers 3. Use addition and subtraction to solve problems involving fractions and decimals.	1. Any algebraic equation can be represented using symbols in an infinite number of representations , where each representation has the same solution. 2. Properties of equality, inequality, and real numbers can transform an equation or inequality into equivalent simpler equations and inequalities. This process is used to find solutions.	1. A single quantity may be represented by many different expression. The facts about a quantity may be expressed by many different equations or inequalities. 2. All of the facts of arithmetic and algebra follow from certain properties.