| Marble Falls ISD | Year at a Glance 2019-2020<br>Pre-AP Math 7 | Creation Date: June 4, 2019<br>Revision Date: August 5, 2019 |
|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| **Unit Name** | Unit 8-1<br>Numbers | Unit 8-2<br>Equations and Inequalities with Variables on Both Sides | Unit 8-3<br>Linear Relationships, Scatterplots, and Slope | Unit 8-4<br>Linear Functions | Unit 8-5<br>Statistics and Samples | Unit 8-6<br>Geometry Relationships |
| **TEKS** | New: 7.2A, 8.2B, 8.2A, **8.2D**, 8.2C | Spiraled: **8.2D**<br>New: 7.10A, 7.10B, 7.10C, 7.11A, 7.11B, 8.8A, 8.8B, **8.8C** | Spiraled: **8.8C**<br>New: 7.4A, 7.7A, 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**<br>New: **8.5I, 8.5G,** 8.5H, 8.9A | Spiraled: **8.5D,** 8.5C<br>New: 7.12B, 7.12C, 8.11B, 8.11C | Spiraled: 8.4A, 8.2B<br>New: 7.11C, 8.8D, 8.6C, **8.7C**, 8.7D |
| **Big Ideas** | 1. Order numbers<br>2. Sets of real numbers<br>3. Approximate value of number on number line<br>4. Scientific notation | 1. Solve equations and inequalities<br>2. Write equations and inequalities<br>3. Write real world problem with equations and inequalities | 1. Rate of change from table or graph<br>2. Unit rate as slope<br>3. right triangles for slope<br>4. Proportional relationships with tables graphs equations in form of y = kx<br>5. Distinguish between proportional and non-proportional using tables, graphs, equations<br>6. Direct variation<br>7. Contrast bivariate sets of data suggesting linear and non-linear relationships<br>8. Scatterplot linear and non-linear associations<br>9. Use trend line to make predictions | 1. Identify functions<br>2. Write equation in y = mx+b from table, graph, equation, verbal<br>3. Identify examples of proportional and non-proportional relationships<br>4. Linear non-proportional with tables graphs equations<br>5. Solution to systems of equations from a graph | 1. Mean absolute deviation<br>2. Random samples | 1. Pythagorean theorem<br>2. Models of Pythagorean theorem<br>3. Distance between two points on coordinate plane with Pythagorean theorem<br>4. Angle sum and exterior angle of triangles, angles in parallel lines cut by transversal, angle triangle similarity |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Unit Name** | Unit 8-7<br>Transformational Geometry | Unit 8-8<br>Volume and Surface Area | Unit 8-9<br>Personal Financial Literacy | Unit 8-10<br>STAAR Review<br>3/9 – 4/6<br>(14 days) | Unit 8-11<br>Fractions<br>4/13 – 4/24<br>(10 days) | Unit 8-12<br>Distribution and Solving Multi-step Equations<br>4/27 – 5/8<br>(10 days) | Unit 8-13<br>Polynomials<br>5/11 – 5/22<br>(10 days) |
| **TEKS** | Spiraled:**8.8C**<br>New: 7.5A, 7.5C, 8.3A, 8.10A, **8.10C**, 8.3B, 8.10B, **8.3C**, 8.10D | Spiraled: **8.3C, 8.10C**<br>New: 7.9A, 7.9D, 8.6A, **8.7A**, 8.6B, **8.7B** | Spiraled: **8.5I**<br>New: 7.13A, 7.13B, 7.13C, 7.13D, 7.13E, 7.13F, 8.12A, 8.12B, **8.12D**, 8.12C, 8.12F, 8.12E, 8.12G | Spiraled for Review:<br>Based on data<br>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**<br>A.5A, A.5B, A.12E, A.10A, A.10C, A.10E, A.10F | **Into to algebra TEKS**<br>A.10A, A.10B, A.10D, A.10C, A.10E, A.10F |
| **Big Ideas** | 1. Translations reflections rotations<br>2. Effect of scale factor on dilations<br>3. Ratio of sides of similar shapes proportional including dilation<br>4. Orientation and congruence of rotations, reflections, translations, dilations<br>5. Transformations that preserve congruence or not<br>6. Attributes of a shape and its dilation on coordinate plane<br>7. Effect of linear and area measure on dilated shapes | 1. Volume of cylinders cones spheres<br>2. Lateral and total surface area<br>3. Volume in terms of base and height<br>4. Model relationship between volume of cylinder and cone | 1. Simple and Compound interest<br>2. Interest and loan length and cost of credit<br>3. Repaying loan<br>4. Investing<br>5. Advantages and disadvantages of different payment methods<br>6. Financially responsible decisions<br>7. Estimate cost of college | 1. Math skills and problem solving can be applied in many situations.<br>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.<br>2. Model addition and subtraction involving fractions with words and numbers<br>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.<br>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.<br>2.All of the facts of arithmetic and algebra follow from certain properties. |