New Braunfels ISD Year at a Glance 2021-2022

Accelerated Math 6

June 2021

Essential Resources

District Resources to Teach 100% of the TEKS located in the NBISD ECourse Resources, 6th Grade Online Textbook Link to TEKS: https://tea.texas.gov/curriculum/teks/

Process Skills Embedded in All Lessons:6.1(A) apply mathematics to problems arising in everyday life, society, and the workplace 6.1(B) use a problem solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem solving process and thereasonableness of the solution
6.1(C) select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems

		1st Quarter Aug 23 - Oct 15, 2021 (38 Instructional Days)			2nd Quarter Oct 19 - Dec 17, 2021 (40 Days)		
Timeline							
Unit		**Unit 01 Numerical Representations**	**Unit 02 Integers**	**Unit 03 Rational Numbers**	**Unit 04 Relationships Between Fractions, Decimals, and Percent and Between Ratios and Rates**	**Unit 05 Solving Ratio, Rate, and Percent Problems**	**Unit 06 Semester Review, Testing, PBL**
Big Idea	Current Grade	Rewrite a number as a product of its prime factors. Create equivalent fractions. Classify rational numbers using a visual representation. Convert fractions to decimals, compare and order a set of fractions and/or decimals using inequality symbols and/or number lines. Locate and order integers on a number line and the coordinate plane. Compare absolute value expressions using inequality symbols.	Represent integers with concrete models and connect these models to the standard algorithm. Add, subtract, multiply, and divide integers. Simplify numerical expressions containg exponents where the base is a positive or negative number. Graph rational numbers on the coordinate plane.	Convert from a mixed number to an improper fraction and an improper fraction to a mixed number. Add, Subtract, Multiply and Divide Mixed Numbers(Positive Rational numbers only). Recognize that dividing by a rational number and multiplying by its reciprocal result in equivalent values. Determine whether a quantity is increased or decreased when multiplied by a fraction, including values greater than or less than one. Understand that a/b is the same as "a divided by b"	Generate equivalent representations of quantities (fractions decimnals, percents) using proportional reasoning and differentiate between ratios and rates in real-life situations.	Use proportions to make predictions or comparisons from real world problems involvin ratios, rates, and percents. Use reasoning about ratios, rates, proportionality, and percent to solve problems. Use proportional reasoning to convert units within a measurement system.	Students will extend and consolidate the concepts of rational numbers, rates, ratios, proportions, and percents
TEKS	Current Grade	6.2ABC**D**E, 6.7**A**(Prime factorization only)	6.3C**D, 6.11A** Spiraled:6.7**A** 6.2C**D**	6.3AB**E**,6.4F**G,** 6.5C,7.3AB Spiraled: 6.3D, 6.7**A**, 6.2ACD	6.4C, 6.4D, 6.4E, 6.4F, **6.4G**, 6.5C Spiraled: **6.2D**,**6.3D**,**6.3E**	**6.4B**, 6.**4H**, 6.5A, **6.5B** 7.4B,**7.4D**(no % increase or decrease),7.4 E Spiraled: **6.3E, 6.4G**	**6.2D, 6.3D, 6.3E, 6.4B, 6.4G, 6.4H, 6.5B, 6.7A, 6.11A**

		3rd Quarter Jan 4 - March 11, 2022 48 Instructional Days			4th Quarter March 21 - May 26, 2022 48 Instructional Days		
Timeline							
Unit		**Unit 07 Linear Relationships**	**Unit 08 Equations and Inequalities**	**Unit 09 Geometry**	**Unit 10 Data and Statistics**	**Unit 11 Financial Literacy**	**Unit 12 Course Review, PBL, Enrichment for 7th Grade**
Big Idea	Current Grade	Students will represent the relationship between two variables in the form y = kx or y = mx + b, using tables and graphs and will calculate unit rates from ratews in mathematical and real world problems. Students will represent constnat rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including d = rt	Students will model and solve one and two-step equations and inequalities. Students will determine whether a given number is a solution to an equation or inequality. Students will write one-variable, equations and inequalities to represent real world prolems	Explore formulas invoving area and volume and how they relate to models and solve problems associated with geometric shapes. Apply equations and inequalities to solve problems involving angle and side length measurements. Find the area and circumference of a circle. Find the area of composite figures	Students will represent data graphically using dot plots, stem-and-leaf plots, histograms, and box plots. Students will use the graphical representation of numeric data to describe the cetner, spread and shape of the data distribution. Students will summarize numeric data using mean, media, mode, range and interquartile range. Summarize categorical data and solve problems using data repreented in bar graphs, dot plos, and circle graphs, including part-to-whole, and part-to-part comparisons and equivalents. Students will compare two groups of numeric data using comparitive dot plots or box plots by comparing their shapes, centers, and spreads	Students will realize the importance of being mathematically fluent in the area of financial literacy. Students will become familiar with basic financial vocabulary and learn to determine sales tax in a variety of situations. Students should also become familiar with the difference between credit and debit cards and will learn to balance a check register that includes deposits, withdrawals, and transfers.	Campus Decision
TEKS	Current Grade	6.4A,6.6A, 6.6B, **6.6C**, **7.4A, 7.7A,** 7.4B, 7.4C Spiraled: **6.4B**, **6.4H**,6.11A	6.7B, 6.7D, 6.9A, 6.9B, 6.9C, **6.10A,** 6.10B, 7.10A, 7.10 B, **7.11A**, 7.11B	6.8A, 6.8B, 6.8C, **6.8D, 7.9 B,** 7.9C, 7.11C Spiraled: 7.11A	6.12A, 6.12B, **6.12C, 6.12D**, **6.13A**, 6.13B, **7.6G, 7.12A**	6.14A, 6.14B, 6.14C, 6.14E, 6.14F, 6.14G, 6.14H	