6th Grade Mathematics

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/

		1st Quarter Aug 23 - Oct 15, 2021 38 Instructional Days			2nd Quarter Oct 19 - Dec 17, 2020 40 Instructional Days		
Timeline							
Unit		Unit 01 Numerical Representations	Unit 02 Integers	Unit 03 Rational Numbers	Unit 04 Ratios, Rates, and Percent	Unit 05 Expressions, Equations, and Inequalities	Semester Wrap-Up PBL, and Testing
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. Find the absolute value of a number. Add, subtract, multiply, and divide decimals.	Graph points in all four quadrants (integers only). Represent integers with concrete models and connect these models to the standard algorithm. Add, subtract, multiply, and divide integers. Simplify numerical expressions using the order of operations including those containing negative numbers.	Simplify expressions containing exponents. Convert from a mixed number to an improper fraction and an improper fraction to a mixed number. Multiply and divide positive rational numbers. 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.	Use proportioanal reasoning to solve prediction and comparison of real world problems involving ratios and rates. Represent mathematical and real-world problems involving ratios and rates using scale factors, tables, graphs, and proportions. Convert units within a measurement system. Solve real-world problems involving percent.	Simplify expressions containing like terms using the associative property. Simplify expressions using the distributive property. Determine whether a given number is a solution to an equation or inequality. Model and solve one-step equations and Inequalities. Distringuish between expressions and equations. Determine if two expressions are equivalent. Write one-step equations and inequalities to represent constraints or conditions within problems. Represent solutions for one-step equations and inequalities on number lines	Review all Readienss TEKS, Optional PBL, and Semester Testing
TEKS	Current Grade	6.2ABCDE, **6.3E**, 6.7**A**(Prime Factorization Only)	6.3C**D**, **6.11A** Spiraled: 6.2BC**D**, 6.7**A**	6.3AB**E** Spiraled TEKS: 6.2**D**,6.3 **D**, 6.7**A**	6.4BCDEFGH, 6.5AC Spiraled TEKS: **6.3D, 6.3E**	6.7**A**BC**D**, 6.9ABC, 6.10**A**B	**6.2D, 6.3DE, 6.4BGH, 6.5A, 6.7AD, 6.10A, 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 7 Data and Statistics	Unit 08 Geometry	Unit 09 Algebraic Representations	Unit 10 Financial Literacy	Unit 11 Cumulative Review PBL	Unit 12 Enrichment
Big Idea	Current Grade	Represent numerical data using dot plots, stem and leaf plots, box plots and bar graphs. Describe the center, spread, and shape of data distribution, summarize graphical data, interpret graphical data	Model area formulas for parallelograms, trapezoids, and triangles. Write equations and determine solutions that represent problems related to the area of rectangles, parallelograms, trapezpoids, triangles, and volume of right rectangular prisms where dimentions are positive rational numbers. Find the measure of missing angles in a triangle and determine if three given lengths can form a triangle.	Represent a given situation using verbal descriptions, tables, graphs, and equations in the form y = kx or y = x + b, Differentiate between additive and multiplicative relationships, Identify independent and dependent quantities from tables and graphs, write an equation that representws the relationship between independent and dependent quantities from a table.	Compare the features and costs of a checking account and a debit card. Distinguish between debit cards and credit cards. Balance a check register that includes deposits, withdrawals and transfers. Describe the information in a credit report and how long it is retained. describe the value of credit reports to borrowers and to lenders. Explain various methods to pay for college, including through savings, grants, scholorships, student loans, and work- sturdy. Compare the annual salary of several occcupations requiring various level of post-secondary education		Campus Based Decision
TEKS	Current Grade	6.12ABC**D**, **6.13A**B Spiraled TEKS: **6.5B, 6.3D, 6.3E**	6.8ABC**D** Spiraled TEKS: **6.10A, 6.11A, 6.3D**	6.4A,6.6AB**C**, **6.11A**	6.14A, 6.14B, 6.14C, 6.14E, 6.14 F, 6.14G, 6.14H	All TEKS with an emphasis on Readiness and Frequently Tested TEKS	