

Rockwall ISD 6th Grade Honors Math Parent Guide



Khan Academy: <https://www.khanacademy.org/math>

Math 4 Texas: <https://www.math4texas.org/>

Imagine Math & Imagine Math Facts: Login through Google Dashboard

Graham Fletcher Progression Videos: <https://gfletchy.com/progression-videos/>

Interactive Math Glossary: <https://www.texasgateway.org/resource/interactive-math-glossary>

Virtual Manipulatives & Strategy Charts: [6 Math Manipulatives Page](#)

Grading Period*	Unit Goals (TEKS)
1	Unit 1: Comparing & Ordering Rational Numbers, including Percents Students will be introduced to the concept of percent. They will expand their understanding of a fraction as another way to write a division problem, convert between fractions & decimals, & convert between mixed numbers & improper fractions. Students will continue to generate equivalent forms of fractions, decimals & percent, order & locate rational numbers on a number line, classify numbers, & use inequality symbols to compare rational numbers. Student Learning Objectives: 6.2ABCDE, 6.4EFG, 6.5C, 7.2A Unit 2: Rational Number Operations Students will multiply and divide fractions & decimals, expand their understanding of decimals as fractional parts of a whole, recognize when a number is multiplied by a value less than one the product will decrease, & the product will increase when a number is multiplied by a value greater than one, & add, subtract, multiply, & divide integers. Students will also learn about paying for college, annual salaries & credit reports. Honors students will apply knowledge of all operations with rational numbers, & calculate sales & income tax. Student Learning Objectives: 6.2BE, 6.3ABCDE, 6.14ABCDEFGH, 7.3AB Unit 3: Proportional Reasoning with Ratios, Rates, & Percents Students will understand proportional reasoning by exploring the relationship between proportions, ratios, & rates. Students will continue to deepen their understanding of proportional reasoning by applying the concepts of percent & scale factor while working with tables, graphs & money in

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	real-world scenarios. Students in Honors will extend calculating unit rates & percent in multi-step problems, calculate percent increase & decrease, convert between units of measure, & apply these skills to financial literacy problems. Student Learning Objectives: 6.7ABCD, 7.3AB
2	Unit 4: Personal Financial Literacy Students will explore personal financial literacy concepts such as earning income, budgeting, saving, spending, and making informed financial decisions. They will apply mathematical reasoning to real-world situations involving money to develop skills that support responsible financial habits. Student Learning Objectives: 6.14ABCDEFGH, 7.13D Unit 5: Equivalent Expressions Students will extend Order of Operations to solve problems with exponents & rational numbers, find prime factorization, identify properties such as inverse, identity, commutative, associative & distributive. They will determine if two expressions are equivalent, & generate equivalent expressions using order of operations & properties of operations. Student Learning Objectives: 6.7ABCD, 7.3AB Unit 6: One-Variable Equations & Inequalities Students will represent one-variable, one-step equations in multiple ways & define, identify, graph, interpret & solve one-variable, one-step inequalities. Students in Honors will write, model, & solve one-variable two-step equations & inequalities & determine if given values make the equations & inequalities true. They will also determine the minimum salary & average hourly wages required for a household budget. Student Learning Objectives: 6.9ABC, 6.10AB, 7.10B, 7.11A
3	Unit 7: Algebraic Representations of Two-Variable Relationships Students will graph ordered pairs in all four quadrants, recognize multiplicative & additive relationships, & identify independent & dependent relationships & quantities. Honors students will extend understanding of unit rates, ratios, & percent in multi-step problems, calculate percent of increase & decrease, & convert within measurement systems. Student Learning Objectives: 6.4A, 6.6ABC, 6.11A Unit 8: Geometry & Measurement Students will extend knowledge of triangles to include the Triangle Inequality Theorem & side length/angle relationship. With quadrilaterals & triangles, students will decompose & rearrange parts to model area formulas, write equations & determine solutions to find the area of quadrilaterals & triangles & find volume of rectangular prisms. Students will also convert within the same measurement system. Honors students will use models to determine circumference & area of a circle, & calculate area of composite shapes. Student Learning Objectives:

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	6.4H, 6.8ABCD, 7.5B, 7.8ABC, 7.9ABC Unit 9: Data Analysis Students will create, analyze, & summarize data in dot plots, stem-&-leaf plots, histograms, box plots & percent bar graphs. They will describe the graphs' shape, center, & the spread of data. Students will use academic vocabulary such as skewed, symmetric, mean, median, mode, & range, with variability & without variability, to describe sets of data. In financial literacy, students will revisit credit reports, compare methods of paying for college, & compare annual salaries of different occupations using tables & graphs. Honors students will also solve problems using graphs & compare groups of numerical data. Student Learning Objectives: 6.12ABCD, 6.13AB, 7.6G, 7.12A
4	Unit 10: STAAR Review- Deepening & Spiraling Readiness Standards Students will deepen their knowledge of 6th grade standards as they review & apply all TEKS to problem situations. Student Learning Objectives: 6.3BCDE, 6.4BCEFG, 6.5B, 6.7AD, 6.9BC, 6.10A Unit 11: Bridging Towards Math 8

* Units may cross grading periods. Indicated here is in which grading period the unit generally will begin.