## Rockwall ISD

## Math 6 Honors Parent Guide

|  | $1^{\text {st }}$ Grading Period | $2^{\text {nd }}$ Grading Period | $3^{\text {rd }}$ Grading Period | $4^{\text {th }}$ Grading Period |
| :---: | :---: | :---: | :---: | :---: |
| Process TEKS <br> (How we do the math) | A Apply mathematics to problems arising in everyday life, society, \& the workplace <br> B Use a problem solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, \& evaluating the problem-solving process \& the reasonableness of the solution <br> C Select tools, including real objects, manipulatives, paper \& pencil, \& technology as appropriate, \& techniques, including mental math, estimation, \& number sense as appropriate, to solve problems <br> D Communicate mathematical ideas, reasoning, \& their implications using multiple representations, including symbols, diagrams, graphs, \& language as appropriate <br> E Create \& use representations to organize, record, \& communicate mathematical ideas <br> F Analyze mathematical relationships to connect \& communicate mathematical ideas <br> G Display, explain, \& justify mathematical ideas \& arguments using precise mathematical language in written or oral communication |  |  |  |
| Units | Unit 1: Comparing \& Ordering Rational Numbers, including Percents <br> 6.2ABCDE, 6.4EFG, 6.5C, 7.2A <br> Unit 2: Rational Number Operations <br> 6.2BE, 6.3ABCDE, 6.14ABCDEFGH, 7.3AB, 7.13C <br> Unit 3: Proportional Reasoning with Ratios, Rates, \& Percents 6.4BCDEGH, 6.5AB, 7.4ABCD, 7.5AC, 7.6G, 7.13ABDF | Unit 3: Proportional Reasoning with Ratios, Rates, \& Percents (continued) <br> 6.4BCDEGH, 6.5AB, 7.4ABCD, 7.5AC, 7.6G, 7.13ABDF <br> Unit 4: Equivalent Expressions 6.7ABCD, 7.3AB <br> Unit 5: One-Variable Equations \& Inequalities <br> 6.9ABC, 6.10AB, 7.10B, 7.11AB, 7.13D | Unit 5: One-Variable Equations \& Inequalities (continued) 6.9ABC, 6.10AB, 7.10B, 7.11AB, 7.13D <br> Unit 6: Algebraic Representations of Two-Variable Relationships 6.4A, 6.6ABC, 6.11A, 7.4ABC <br> Unit 7: Geometry \& Measurement 6.4H, 6.8ABCD, 7.5B, 7.8ABC, 7.9ABC <br> Unit 8: Data Analysis 6.12ABCD, 6.13AB, 7.6G, 7.12A | Unit 8: Data Analysis (continued) 6.12ABCD, 6.13AB, 7.6G, 7.12A <br> Unit 9: Deepening \& Spiraling Readiness Standards 6.3BCDE, 6.4BCEFG, 6.5B, 6.7AD, 6.9BC, 6.10A |
| Topic Focus | Unit 1: 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. <br> Unit 2: 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, | Unit 3: (continued) <br> Unit 4: 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. <br>  | Unit 5: (continued) <br> Unit 6: 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. <br> Unit 7: 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 | Unit 8: (continued) <br> Unit 9: Students will deepen their knowledge of 6th grade standards as they review \& apply all TEKS to problem situations. |



|  | Discuss weather \& temperature changes. "It's 25 degrees \& drops 28, now it is -3 degrees. <br> Discuss credits \& debits, deposits \& withdrawals. What does it mean when an account is overdrawn? Discuss above \& below sea level <br> Financial Literacy - Discuss the different ways to pay for college. (Saving Account, Student Loans, Grants, Work Study \& Scholarships) | Is it a better deal to use a coupon or the sale price? | Arithmetic Properties: identify, associative, commutative, distributive |
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| General Resources | Khan Academy: https://ww Math 4 Texas: https://www Imagine Math \& Imagine N Graham Fletcher Progressio Interactive Math Glossary: Virtual Manipulatives \& Str | w.khanacademy.org/math .math4texas.org/ <br> ath Facts: Login through Goog <br> n Videos: https://gfletchy.com <br> https://www.texasgateway.or <br> ategy Charts: 6 Math Manipula | ashboard ogression-videos/ <br> source/interactive-math-glossary <br> s Page |

