

Rockwall ISD

Math 5 Compacted Parent Guide

	1 st Grading Period	2 nd Grading Period	3 rd Grading Period	4 th Grading Period
Process TEKS <i>(How we <u>do</u> the math)</i>	<p>A Apply mathematics to problems arising in everyday life, society, & the workplace</p> <p>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</p> <p>C Select tools, including real objects, manipulatives, paper & pencil, & technology as appropriate, & techniques, including mental math, estimation, & number sense as appropriate, to solve problems</p> <p>D Communicate mathematical ideas, reasoning, & their implications using multiple representations, including symbols, diagrams, graphs, & language as appropriate</p> <p>E Create & use representations to organize, record, & communicate mathematical ideas</p> <p>F Analyze mathematical relationships to connect & communicate mathematical ideas</p> <p>G Display, explain, & justify mathematical ideas & arguments using precise mathematical language in written or oral communication</p>			
Units	<p>Unit 1: <i>Extending Whole Numbers/Decimals & Algebraic Relationships</i> 5.2ABC, 5.3ABCK, 5.4AEF, 5.9AC, 5.10CDEF</p> <p>Unit 2: <i>Multiplication Operations with Decimals</i> 5.3ADE, 5.4ABEF, 5.9AC, 5.10AB</p> <p>Unit 3: <i>Division Operations with Decimals</i> 5.3AFG, 5.4BEF, 5.9AC</p>	<p>Unit 4: <i>Operations with Fractions & Decimals (comparing, improper, mixed, equivalent, & simplifying fractions)</i> 5.3AHJKLM, 5.4EF, 5.9AC, 6.2E, 6.3ABE, 6.4F</p> <p>Unit 5: <i>Patterns on a Coordinate Plane & Algebraic Relationships</i> 5.4BCD, 5.8ABC, 6.2BC, 6.4A, 6.11A</p>	<p>Unit 5: <i>Patterns on a Coordinate Plane & Algebraic Relationships (continued)</i> 5.4BCD, 5.8ABC, 6.2BC, 6.4A, 6.11A</p> <p>Unit 6: <i>Geometry & Contextual Measurement</i> 5.4BGH, 5.5A, 5.6AB, 5.7A</p> <p>Unit 7: <i>Focus on Data Analysis</i> 5.9ABC</p>	<p>Unit 8: <i>Deepening & Spiraling Readiness Standards</i> 5.2B, 5.3EGKL, 5.4BCFH, 5.5A, 5.8C, 5.9C, 5.10ABEF</p> <p>Unit 9: <i>Extending Numerical Relationships</i> 6.7AD</p> <p>Unit 10: <i>Equivalent Forms of Fractions, Decimals, & Percents</i> 6.4EFG, 6.5C</p>
Topic Focus	<p>Unit 1: Students will extend their knowledge of place value to the thousandths using expanded notation, rounding decimals & comparing/ordering decimals. Students will add & subtract decimals to the thousandths, multiply 3-digit by 2-digit whole numbers & divide 4-digit dividend & 2-digit divisors. Students will be introduced to prime & composite numbers, balancing a simple budget & order of operations. Students will solve one- & two-step problems from frequency tables, bar graphs, & dot plots.</p> <p>Unit 2: Students will be introduced to finding products to the hundredths using pictorial models & the standard algorithm, including simplifying expressions. Students will be introduced to representing & solving multi-step problems with</p>	<p>Unit 4: Students will simplify fractions & convert between mixed number & improper fractions. Students will represent & solve addition, subtraction, multiplication & division of fractions, including simplifying expressions. Students will solve 1- & 2-step problems from frequency tables, bar graphs & dot plots including fractions. Students will extend & deepen their understanding of all operations using positive rational numbers.</p> <p>Unit 5: Students will be introduced to graphing in all four quadrant & additive/multiplicative relationships.</p>	<p>Unit 5: <i>continued</i></p> <p>Unit 6: Students will extend their understanding of 2D figures to classify & organize them into sets & subset. Students will represent & solve problems related to perimeter, area & volume. Students will convert customary & metric units.</p> <p>Unit 7: Students will solve 1 & 2 step problems on a frequency table, dot plot, bar graph, stem & leaf plot, & scatterplot using whole numbers, decimals & fractions.</p>	<p>Unit 8: Students will review & deepen their understanding of all 5th grade standards in preparation for the STAAR test.</p> <p>Unit 9: Students will extend their knowledge of order of operations to include exponents & prime factorization. Students will be introduced to the properties of operations including inverse, identity, commutative, associative, & distributive in order to generate equivalent numerical expressions.</p> <p>Unit 10: Students will extend their knowledge of fractions & decimals to include percents. Students will represent percents using equal parts of the same whole with 10 by 10 grids, strip diagrams, number lines, & numbers.</p>

	<p>whole numbers and unknowns/variables. Students will solve one- & two-step problems on a frequency table, dot plot, & bar graphs while including decimals. Students will define all types of taxes.</p> <p>Unit 3: Students will be introduced to representing & solving quotients to the hundredths using pictorial models & the standard algorithm, including simplifying expressions. Students will extend their knowledge of representing & solving multi-step problems with whole numbers & unknowns/variables. Students will solve one- & two-step problems on a frequency table, dot plot, & bar graphs while including decimals. Students will define net & gross income.</p>			
<p>Suggestions for Parental Involvement / Support</p>	<p>Place Value of Decimals - Have students make decimals cards up to three decimal places (thousandths) & have them compare, order greatest to least or least to greatest, & write in standard form, expanded form, & word form. Decimal Place Value videos</p> <p>Addition/Subtraction of Whole Numbers & Decimals - Have students use the decimal cards they created for Place Value & find the sum or difference. Include whole numbers up to hundred thousand. Student could then create real world situations (word problem) involving adding & subtracting decimals. When out shopping, apply reasonableness & estimation to calculate totals of items being purchased. Addition/Subtraction videos</p> <p>Multiplication - Have students practice their multiplication facts up through 12 x 12 (flash cards, computer games, phone/iPad apps). Please continue to practice these facts throughout the school year. Multiplication/Division videos</p>	<p>Division with Whole Numbers & Decimals - Practice standard algorithm. Remember to include remainders (left overs)</p> <p>Operations with Fractions - Ask your child to identify fractions around the house (<i>ex. What fraction of the shirts in your closet are red? What fraction are blue?</i>) Compare these fractions. Find the sum or difference of these fractions. Find equivalent fractions when cooking/baking. (<i>ex. I need ½ cup of oil, but I don't have a ½ measuring cup. What other size measuring cups could you use to make the ½ cup? Two ¼ cups, four ⅛ cups, etc.</i>) Fraction Operation videos</p>	<p>Patterns & Coordinate Grids - Have your child identify, label, & practice plotting points (whole numbers, decimals, & fractions) on a coordinate plane (All four quadrants). Algebraic Thinking videos</p> <p>Geometry & Measurement - Have your child identify & solve for perimeter, area & volume problems. (Use real world items ex. Length, width & height of table top, bathtub, backyard) Coordinate Grid & Geometry videos</p> <p>Have your child identify, compare, contrast & find real world examples of all types of quadrilaterals (parallelogram, rectangle, rhombus, square, trapezoid) Measurement & Data videos</p> <p>Data Analysis - Have your child create a survey & create tables, charts, or graphs that represent the data they collect. (dot plot, stem & leaf, bar graph, scatterplots)</p>	<p>Spiraling Readiness Skills- Have your child practice adding, subtracting, multiplying & dividing whole numbers, decimals & fractions.</p>

	Division with Whole Numbers & Decimals - Practice standard algorithm. Remember to include remainders (left overs)			
General Resources	<p>Khan Academy: https://www.khanacademy.org/math</p> <p>Math 4 Texas: https://www.math4texas.org/</p> <p>Imagine Math & Imagine Math Facts: Login through Google Dashboard</p> <p>Graham Fletcher Progression Videos: https://gfletchy.com/progression-videos/</p> <p>Interactive Math Glossary: https://www.texasgateway.org/resource/interactive-math-glossary</p> <p>Virtual Manipulatives & Strategy Charts: 5 Math Manipulatives Page</p>			