|  | $1^{\text {st }}$ Grading Period | $2^{\text {nd }}$ Grading Period | $3^{\text {rd }}$ Grading Period | $4^{\text {th }}$ Grading Period |
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| 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 | Routine (Embedded Throughout <br> Term 1) <br> 5.3AK, 5.4B <br> Unit 1: Place Value \& Algebraic Relationships <br> 5.2ABC, 5.3BCK, 5.4AEF, 5.9AC, <br> 5.10CDEF <br> Unit 2: Multiplication \& Division with Decimals 5.3BCDEFG, 5.4BEF, 5.9AC, 5.10AB | Routine (Embedded Throughout <br> Terms 2-4 <br> 5.3ABCK, 5.4BF <br> Unit 3: Operations with Fractions \& Decimals (comparing, improper, mixed, equivalent, \& simplifying fractions) <br> 5.3HIJKL, 5.4AEF, 5.9AC, 6.2E, 6.3ABE, 6.4F <br> Unit 4: Equivalent Forms of Fractions, Decimals, \& Percents 6.4EFG, 6.5C | Unit 5: Patterns on a Coordinate Plane \& Algebraic Relationships 5.4BCD, 5.8ABC, 5.9BC, 6.2BC, 6.4A, 6.11A <br> Unit 6: Geometry \& Measurement Applications 5.4BGH, 5.5A, 5.6AB, 5.7A | Unit 7: Extending Numerical Relationships 6.7AD <br> Unit 8: Deepening \& Spiraling Readiness Standards 5.2B, 5.3EGK, 5.4CH, 5.5A, 5.8C, 5.9C |
| Topic Focus | Unit 1: Students will extend their knowledge of place value to the thousandths by representing using expanded notation \& numerals, rounding decimals, \& comparing/ordering decimals. They will solve problems to include adding \& subtracting decimals to the thousandths, multiplying 3 -digit by 2-digit whole numbers, \& dividing a 4-digit dividend by a 2 -digit divisor. They will be introduced to identifying prime \& composite numbers \& simplifying numerical expressions. Students will solve one\& two-step problems from frequency tables, bar graphs, \& dot plots. They will identify advantages \& disadvantages of different forms of payment, as well as balance a simple budget. | Unit 3: Students will represent \& solve addition \& subtraction of fractions with unequal denominators using objects, pictorial models, \& properties of operations. They will represent \& solve multiplication \& division of fractions to include dividing a whole number by a unit fraction \& a unit fraction by a whole number, as well as multiplying a whole by a fraction to include simplifying expressions. They will extend their understanding of rational number representations \& operations by means of the following: understanding the fraction bar is a representation for division \& the relationship between multiplication \& division of reciprocals, determining when a fraction is multiplied by a number whether the value will increase or decrease, \& represent | Unit 5: Students will continue to represent \& solve multi-step word problems involving the 4 operations using equations with a letter standing for the unknown quantity. They will identify a number, its opposite, \& its absolute value, as well as locate, compare, \& order integers \& rational numbers using a number line. They will generate numerical patterns when given a rule, graph outcomes, \& compare two rules verbally, numerically, graphically, \& symbolically in order to differentiate between additive \& multiplicative relationships. Students will be able to describe the key attributes of the coordinate plane, graph, \& describe the process of graphing ordered pairs of numbers in all 4 quadrants arising from mathematical \& real-world problems, including those | Unit 7: Students will extend their knowledge of order of operations to include exponents \& prime factorization. They will generate equivalent numerical expressions using the order of operations \& the properties of operations: inverse, identity, commutative, associative, \& distributive. <br> Unit 8: Students will deepen their knowledge of 5th grade standards as they review \& apply all TEKS to problem situations. |


|  | Unit 2: Students will be introduced to finding products \& quotients of decimal numbers to the hundredths using objects, pictorial modelsincluding area models, \& the standard algorithm. They will represent \& solve multi-step problems with whole numbers \& unknowns/variables \& simplify numerical expressions. Students will solve one- \& two-step problems using data from frequency tables, dot plots, bar graphs, \& stem-\&-leaf plots, including decimal numbers, \& represent categorical data with bar graphs or frequency tables \& numerical data with dot or stem-\&-leaf plots. Students will also define types of taxes \& explain the difference between gross $\&$ net income. | benchmark fractions. Students will solve 1- \& 2-step problems from data found in frequency tables, bar graphs, \& dot plots. <br> Unit 4: Students will use equivalent fractions, decimals, \& percents to represent the same whole extending their prior knowledge of fraction \& decimal relationships. They will represent percents with concrete models, fractions, \& decimals, including percents of benchmark fractions \& their multiples using 10 by 10 grids, strip diagrams, number lines, \& numbers. They will also generate equivalent forms of fractions, decimals, \& percent using real-world problems. | generated by number patterns or found in an input-output table. Students will represent discrete paired data on a scatterplot, \& solve 1- \& 2-step problems using data from a frequency table, dot plot, bar graph, stem-\&-leaf plot, or scatterplot. <br> 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. They will convert customary \& metric units. |  |
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| Suggestions <br> for Parental <br> Involvement <br> / Support | 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. <br> Decimal Place Value videos <br> Addition/Subtraction of Whole <br> 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. <br> When out shopping, apply reasonableness \& estimation to calculate totals of items being purchased. <br> Addition/Subtraction videos <br> Multiplication - Have students practice their multiplication facts up through $12 \times 12$ (flash cards, computer games, phone/iPad apps). Please continue to practice these facts throughout the school year. Multiplication/Division videos | Operations with Fractions - Ask your child to identify fractions around the house (ex. What fraction of the shirts in your closet are red? What fraction are blue?) Compare these fractions. Find the sum or difference of these fractions. Find equivalent fractions when cooking/baking. (ex. I need $\frac{1}{2}$ cup of oil, but I don't have a $\frac{1}{2}$ measuring cup. What other size measuring cups could you use to make the $\frac{1}{2}$ cup? Two $\frac{1}{4}$ cups, four $\frac{1}{8}$ cups, etc.) <br> Fraction Operation videos | Integers - (Real World Positive \& Negative Numbers) 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? <br> Discuss above \& below sea level <br> Patterns \& Coordinate Grids - <br> Have your child identify, label, \& practice plotting points (whole numbers, decimals, \& fractions) on a coordinate plane (All four quadrants). Algebraic Thinking videos <br> 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) <br> Coordinate Grid \& Geometry videos <br> Have your child identify, compare, contrast \& find real world examples of all types of quadrilaterals <br> (parallelogram, rectangle, rhombus, square, trapezoid) <br> Measurement \& Data videos <br> Data Analysis - Have your child create a survey \& create tables, charts, or graphs | Order of Operations videos Math 5 Compacted solves problems that include exponents. <br> Real world fractions - While cooking together, discuss measurements increasing with decreasing serving size. <br> Percents - Discuss sale discounts \& how to mentally calculate $10 \%$ of a whole number \& use this to find other percents such as $20 \%, 25 \%, 50 \% \& 75 \%$ of the item. Relate percent to $\$ 1.00$, to reinforce percent is out of 100 . <br> $\frac{1}{4}$ of a dollar is $\$ .25, \frac{1}{2}$ of a dollar is $\$ .50$ \& $\frac{3}{4}$ of a dollar is $\$ .75$. <br> Discuss equivalent forms of fractions, decimals, \& percents, including money. (Ex. $\frac{1}{10}=0.10=10 \%=$ one dime) <br> Fraction, Decimal, \& Percent Visual Models <br> Spiraling Readiness Skills- <br> Have your child practice adding, subtracting, multiplying \& dividing whole numbers, decimals \& fractions. |



