Ridgeland School District 122
Grade 4 Math Curriculum Map
***Problem Solving Strategies and Applications will be incorporated into all areas.**

| Trimester 1 | Trimester 2 | Trimester 3 |
|---|---|---|
| 1. Operations and Algebraic Thinking<br>• Using arrays to model multiplication situations<br>• Using arrays to find factors<br>• Finding the multiples of a number by skip counting<br>• Identifying prime, square, and composite numbers<br>• Identifying and learning multiplication combinations<br>• Solving word problems that involve multiplicative comparison<br>• Determining whether one number is a factor or multiple of another<br>• Identifying factors of a number<br><br>2. Measurement and Data<br>• Organizing ordered, numerical data to describe a data set<br>• Describing the shape of a data set<br>• Using a line plot to represent ordered, numerical data<br>• Using standard units to determine length<br>• Recording and keeping track of data<br>• Using medians to describe groups<br>• Developing, revising, and recording a survey question<br>• Comparing data of two groups<br>• Developing arguments based on data<br><br>3. Numbers and Operations in Base Ten<br>• Developing strategies for multiplying that involve breaking apart numbers<br>• Representing multiplication and division problems using pictures, diagrams, or models<br>• Using arrays to model multiplication | 4. Measurement, Data, and Geometry<br>• Using standard and metric units to measure length<br>• Finding perimeter using standard units<br>• Defining and classifying polygons by attributes<br>• Identify parallel and perpendicular lines<br>• Understand the relationship between squares and rectangles<br>• Identifying and measuring angles<br>• Using known angles to find the missing angle<br>• Finding the area of symmetrical designs, polygons, and irregular polygons<br>• Finding the area by decomposing shapes<br><br>5. Numbers and Operations in Base Ten<br>• Reading, writing, and sequencing numbers<br>• Rounding and comparing numbers<br>• Writing numbers in expanded form<br>• Solving addition and subtraction problems with large numbers by focusing on the place value of the digits, using clear and concise notation<br>• Identifying, describing, and comparing addition and subtraction strategies<br>• Representing addition and subtraction on a number line<br>• Combining positive and negative numbers<br><br>6. Number and Operations - Fractions<br>• Finding fractional parts<br>• Interpreting the meaning of a numerator and denominator of a fraction<br>• Identifying and comparing equivalent fractions<br>• Adding and subtracting fractions<br>• Fractions greater than one | 7. Measurement and Data<br>• Finding the volume of a rectangular prism<br>• Decomposing a rectangular prism<br>• Developing a strategy for determining volume<br>• Converting measurements<br>• Finding equivalent measurements<br><br>8. Operations and Algebraic Thinking<br>• Multiples of 10<br>• Estimation and solving 2-digit multiplication problems<br>• Multiplication strategies<br>• Division strategies<br>• Using the relationship between multiplication and division to solve problems<br><br>9. Represent and Interpret Data<br>• Interpreting graphs<br>• Finding the value of one quantity in a situation of constant change given the value of the other<br>• Using and interpreting tables<br>• Describing the relationship between two quantities in a situation of constant change<br>• Plotting points on a coordinate grid using symbolic letter notation to represent the value of one variable in terms of another<br>• Describing graphs in terms of different rates of change<br>• Comparing tables, graphs, and situations of constant change with those of non-constant change |

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| • Using and interpreting division notation<br>• Making sense of remainders in terms of the problem context<br>• Using known multiplication combinations to solve division problems<br>• Creating and solving division problems<br>• Multiplying by a multiple of 10<br>• Finding multiples<br>• Determining the effect on a product when a factor is doubled or halved<br><br>Common Core State Standards<br>4.OA.1, 4.OA.2, 4.OA.3, 4.OA.4<br>4.NBT.2, 4.NBT.4, 4.NBT.5, 4.NBT.6,<br>4.MD.2 | • Ordering and Comparing fractions<br>• Fractions on a number line<br>• Adding and subtracting mixed numbers<br>• Multiplying whole numbers and fractions<br>• Reading, writing, and representing tenths and hundredths<br>• Ordering , comparing, and combining decimals<br>• Decimal and fraction equivalents<br><br>Common Core State Standards<br>4.NBT.1, 4.NBT.2, 4.NBT.3, 4.NBT.4<br>4.MD.1, 4.MD.2, 4.MD.3, 4.MD.4, 4.MD.5.a,<br>4.MD.5.b, 4.MD.6, 4.MD.7<br>4.G.1, 4.G.2, 4.G.3<br>4.NF.1, 4.NF.2, 4.NF.3.a, 4.NF.3.b, 4.NF.3.c,<br>4.NF.3.d, 4.NF.4.a, 4.NF.4.b, 4.NF.4.c, , 4.NF.5,<br>4.NF.6. 4.NF.7 | Common Core State Standards<br>4.NF.7<br>4.NBT.2, 4.NBT.5, 4.NBT.6<br>4.MD.1, 4.MD.2, 4.MD.4<br>4.OA.3, 4.OA.5 |