

Teacher: CORE Math Grade 5

Year: 2010-11

Course: Math Grade 5

Month: All Months

| | | | | | | | |
|---|-----------------------------|--|---|---|-------------|---------|--|
| S e p t e m b e r | NUMBER SENSE ~ NUMBER SENSE | | | | | | |
| | Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Standards |
| | | Whole Numbers: Read, Write 0 - 999,999,999 | Write the standard form of a number given the word form to the millions Write the word form of a number given in standard form to the millions | millions whole numbers periods standard form word form | | | 5.NBT.1- Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left. |
| | | Whole Numbers: Compare, Order | Compare numbers to the millions using greater than, less than and equal to symbols Order numbers to the millions | greater than less than equal to compare order millions | | | 4.NBT.2- Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using $>$, $=$, |

| | | | | | | | and < symbols to record the results of comparisons. |
|---------------------|--------------------------------|---|--|-------------|---------|-----------|--|
| | Whole Numbers: Prime Composite | Identify a number as prime or composite | place value | | | | |
| | Whole Numbers: Rounding | Identify the place value from the hundredths to the ten thousandths Apply rules of rounding to the specified place value | rounding place value hundredth tenth thousandths | | | | 5.NBT.4-Use place value understanding to round decimals to any place. |
| Operations | | | | | | | |
| Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Resources | Standards |
| | Decimal: Estimate Sums | Find the sum of decimals using estimation | estimation sum decimals | | | | 5.NBT.7-Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of |

| | | | | | | | |
|--|-------------------------------|---|---------------------------------|--|--|--|---|
| | | | | | | | operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. |
| | Decimal: Estimate Differences | Find differences of decimals using estimation | estimation differences decimals | | | | 5.NBT.7- Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. |

O

c

NUMBER SENSE ~ NUMBER SENSE

| t o b e r | Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Resources | Standards |
|-----------------------|---------------------|----------------------------------|--|---|-------------|---------|-----------|---|
| | | Whole Numbers: Exponents | Write exponents using exponential notation, standard form, and expanded form | Exponent base squared cubed factors | | | | 5.NBT.2- Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10. |
| | | Divide: 3 digit by 1 and 2 digit | Find the quotient of a 3 digit dividend by 1 and 2 digit divisors. | quotient dividend divisor | | | | 5.NBT.6- Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on |

| | | | | | | | |
|--|---|--|-------------------------------------|--|--|--|---|
| | | | | | | | <p>place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.</p> <p>5.N.17 -Use a variety of strategies to divide three-digit numbers by one and two-digit numbers</p> <p>Note: Division by anything greater than a two-digit divisor should be done using technology.</p> |
| | <p>Estimation: Justify reasonableness</p> | <p>Justify reasonableness of answers using estimation.</p> | <p>estimation products decimals</p> | | | | <p>5.N.27-Justify the reasonableness of answers using estimation</p> <p>5.NBT.6-Find whole-number quotients of whole numbers with up to four-</p> |

| | | | | | | | |
|--|---|--|--|--|--|--|---|
| | | | | | | | <p>digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.</p> |
| | <p>Whole Numbers: Prime Composite</p> | <p>Identify a number as prime or composite</p> | <p>prime composite divisible divisor</p> | | | | <p>4.OA.4- Find all factor pairs for a whole number in the range 1â€™100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1â€™100 is a multiple of a given one-digit number. Determine</p> |

| | | | | | | | whether a given whole number in the range 1â€100 is prime or composite. 5.N.12 - Recognize that some numbers are only divisible by one and themselves (prime) and others have multiple divisors (composite) |
|---------------------|-----------------------------|--|-------------------------------|-------------|---------|-----------|---|
| Operations | | | | | | | |
| Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Resources | Standards |
| | Decimal: Estimate Products | Find products of decimals using estimation | estimation products decimals | | | | 5.NBT.5- Fluently multiply multi-digit whole numbers using the standard algorithm. 5.N.26 - Estimate sums, differences, products, and quotients of decimals |
| | Decimal: Estimate Quotients | Find quotientsof decimals using | estimation quotients decimals | | | | 5.NBT.6- Find whole-number quotients of |

| | | | | | | |
|--|------------------------------|---|------------------------|--|--|---|
| | | estimation | | | | whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. 5.N.26 - Estimate sums, differences, products, and quotients of decimals |
| | Multiply: 3 Digit by 3 Digit | Find the product of a 3 digit by 3 digit problems | Multiply Product digit | | | 5.NBT.5- Fluently multiply multi-digit whole numbers using the standard algorithm. 5.N.16-Use a variety of strategies to |

| | | | | | | | | |
|----------|---------------------|----------------------------------|---|---|-------------|---------|-----------|--|
| November | | | | | | | | multiply three-digit by three-digit numbers Note: Multiplication by anything greater than a three digit multiplier/ multiplicand should be done using technology. |
| | Operations | | | | | | | |
| | Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Resources | Standards |
| | | Expressions: Order of Operations | Solve algebraic expressions using order of operations | Algebraic expression order of operations multiplication division addition subtraction parenthesis | | | | 5.OA.1-Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols. |
| | | Decimals: Divide | Skills find quotient of decimal dividends by decimal divisors | Quotient Divisor Dividend | | | | |
| ALGEBRA | | | | | | | | |
| | Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Resources | Standards |
| | | Expression: Variable | Apply assigned value into algebraic expression. | variable algebraic expression order of operations | | | | 5.OA.2-Write simple expressions that record calculations |

| | | | | | | | |
|--|-------------------------------|---|-----------------------------|--|--|--|---|
| | | Solve algebraic expression using order of operations, using PEMDAS (Please excuse my dear aunt sally) | | | | | with numbers, and interpret numerical expressions without evaluating them. 5.OA.3-Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane. |
| | Equations: Whole Number Facts | Solve for the given variable. | equation whole number solve | | | | 5.OA.1-Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols. |
| | <u>Patterns: Variable</u> | <u>Create a pattern of numbers</u> | pattern double create | | | | 5.OA.2-Write simple expressions that record |

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| | | <p><u>Explain the pattern of a list of numbers</u></p> <p><u>Extend the pattern of a list of numbers</u></p> | | | | | <p>calculations with numbers, and interpret numerical expressions without evaluating them.</p> <p>5.OA.3- Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane.</p> |
|--|--|--|--|--|--|--|--|

| | | | | | | | |
|--|--|--|---|--|--|--|---|
| | Terminology: Algebraic Expressions, Constants, Variables | Apply correct terminology to algebraic expressions. | constant variable algebraic expression | | | | 5.OA.2- Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them. |
| | Expressions: Verbal, Algebraic | Write algebraic expressions when given verbal expressions. | expression verbal algebra | | | | 5.OA.2- Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them. |
| | Equations: Whole Numbers, Inverse Operations | Solve equations using inverse operations. | inverse operation equation solve whole number | | | | 5.OA.3- Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from |

| | | | | | | | | |
|----------|-------------------------------------|---------------------------------|--|--|-------------|---------|--|---|
| | | | | | | | the two patterns, and graph the ordered pairs on a coordinate plane. | |
| December | VISUALIZATION AND SPACIAL REASONING | | | | | | | |
| | Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Resources | Standards |
| | | Triangles:Similar | Classify triangles as similar or not similar Match corresponding sides of similar triangles | similar triangle scalene, isosceles, equilateral corresponding sides right triangle acute obtuse ratio | | | | 5.G.2-Identify pairs of similar triangles 5.G.3 - Identify the ratio of corresponding sides of similar triangles |
| | | <u>Quadrilaterals: Classify</u> | <u>Classify quadrilaterals as a rectangle, square, rhombus or parallelogram</u> | quadrilateral square rectangle rhombus parallelogram | | | | 5.G.4 - Classify quadrilaterals by properties of their angles and sides |
| | | Triangles: Classify | Classify triangles as equilateral, isosceles, scalene, acute, obtuse and right. | isosceles equilateral scalene acute obtuse right | | | | 5.G.6 - Classify triangles by properties of their angles and sides |
| | | Triangles: Interior Measurement | Identify in writing the number of degrees that | interior angles degrees triangle | | | | 5.G.7 - Know that the sum of the interior |

| | | | | | | | |
|--|--------------------------------|--|---------------------------------------|--|--|--|--|
| | | are in a triangle | sum | | | | angles of a triangle is 180 degrees |
| | | Calculate the missing angle of a triangle by adding the 2 given angles and subtract the sum from 180 degrees | | | | | 5.G.8 -Find a missing angle when given two angles of a triangle |
| | Triangles:Congruent | Find the congruent triangles from a given set of triangles | congruent triangle identify | | | | 5.G.9 - Identify pairs of congruent triangles |
| | <u>Symmetry: Identify,Draw</u> | <u>Identify the number of lines of symmetry in a given geometric shape</u> <u>Draw lines of symmetry in a given geometric shape</u> | symmetry line of symmetry symmetrical | | | | 5.G.11- Identify and draw lines of symmetry of basic geometric shapes |
| | Quadrilateral:Interior Angles | Calculate the missing angle of a quadrilateral. | quadrilateral angle sum interior | | | | 5.G.3- Understand that attributes belonging to a category of two-dimensional |

| | | | | | | | figures also belong to all subcategories of that category. For example, all rectangles have four right angles and squares are rectangles, so all squares have four right angles. 5.G.4- Classify two-dimensional figures in a hierarchy based on properties. |
|---------------------|--|--|--|-------------|---------|-----------|--|
| | Triangles: Congruent Corresponding Parts | Identify corresponding parts of congruent triangles. | corresponding congruent triangles | | | | 5.G.10 - Identify corresponding parts of congruent triangles |
| Measurement | | | | | | | |
| Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Resources | Standards |
| | Angles: Measure, Draw | Decide to use a ruler or a protractor to measure a given length or degree. Use a protractor to draw and measure angles | degree measure of an angle measure measurement protractor | | | | 4.G.1 - Identify and name polygons, recognizing that their names are related to the number of sides and angles (triangle, quadrilateral, |

| u a r y | Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Resources | Standards |
|------------------|---------------------|----------------------------------|---|---|-------------|---------|-----------|--|
| | | <u>Fractions: Equivalent</u> | <u>Create equivalent fractions given a fraction</u> | fraction equivalent | | | | 4.NF.1- Explain why a fraction $\frac{a}{b}$ is equivalent to a fraction $\frac{n \cdot a}{n \cdot b}$ by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions. |
| | | <u>Fractions: Compare, Order</u> | <u>Compare fractions with like denominators in a given set using the greater than, less than and equal to symbols</u> <u>Order</u> | compare order denominator fraction | | | | 4.NF.2- Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or |

| | | | | | | | |
|--|--------------------------|--|---------|--|--|--|---|
| | | <u>fractions with like and unlike denominators from greatest to least and/or least to greatest</u> | | | | | numerators, or by comparing to a benchmark fraction such as $\frac{1}{2}$. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols $>$, $=$, or |
| | <u>Factors: Identify</u> | <u>Find factors of a given number</u> | factors | | | | 4.OA.4- Find all factor pairs for a whole number in the range 1–100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1–100 is a multiple of a given one-digit number. Determine whether a given whole |

| | | | | | | | |
|--|-------------------------------------|--|------------------------------------|--|--|--|--|
| | | | | | | | number in the range 1â€100 is prime or composite. |
| | Whole Number: Multiples | Calculate multiples of a whole number | multiple whole number | | | | 5.NF.1-Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. |
| | Whole Number: Least Common Multiple | Find least common multiple of a whole number | multiple least common whole number | | | | 5.NF.1-Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with |

| | | | | | | | |
|--|-----------------------------------|--|---|--|--|--|---|
| | | | | | | | like denominators. |
| | Fractions: Estimate Sums | Find sums of fractions with like denominators using estimation | sums fraction estimation denominator | | | | 5.NF.2-Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers. |
| | Fractions:Estimate Differences | Find differences of fractions with like denominators | differences estimation fraction denominators | | | | 5.NF.2-Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to |

| | | | | | | | |
|--|---|---|---|--|--|--|--|
| | | | | | | | represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers. |
| | Fractions: Add and subtract with unlike denominators | Find sums and differences of fractions with unlike denominators | Sum difference fraction equivalent simplify | | | | 5.NF.1-Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. 5.NF.2-Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using |

| | | | | | | | |
|----------|---|-----------------------------|--|---|-------------|---------|--|
| | | | | | | | visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers. |
| February | MEASUREMENT ~ This unit is taught in Science. | | | | | | |
| | Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Standards |
| | | Measure: Nearest Inch | Measure 2D objects to the nearest inch using a ruler. | customary measurement system inch measure measurement ruler metric | | | 5.MD.1- Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems. |
| | | Measure: Nearest Centimeter | Measure 2D objects to the nearest centimeter with a ruler. | centimeter length measure metric system ruler | | | 5.MD.1- Convert among different-sized standard measurement units within |

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| | | | | | | | a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems. |
|--|--|--|--|--|--|--|--|

Visualization and Spatial Reasoning

| Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Resources | Standards |
|---------------------|---------------------|--|--|-------------|---------|-----------|---|
| | Perimeter: Polygons | calculate the perimeter of regular and irregular polygons | corresponding sides equilateral triangle formula irregular polygon regular polygon, length octagon hexagon pentagon perimeter side | | | | 4.MD.3- Apply the area and perimeter formulas for rectangles in real world and mathematical problems. |
| | Geometry: Perimeter | Perimeter of geometric shapes drawn on a coordinate plane. | perimeter coordinate plane geometric shape | | | | 4.MD.3- Apply the area and perimeter formulas for rectangles in real world and mathematical problems. |

Algebra

| Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Resources | Standards |
|---------------------|---------|--------|------------|-------------|---------|-----------|-----------|
| | | | | | | | |

| | | | | | | | |
|--|-----------------------|--|-------------------------------|--|--|--|--|
| | Perimeter: Formula | Apply input values to perimeter formula | formula perimeter input | | | | 4.MD.3- Apply the area and perimeter formulas for rectangles in real world and mathematical problems. |
|--|-----------------------|--|-------------------------------|--|--|--|--|

Operations

| Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Resources | Standards |
|------------------------|------------------------|---|------------------------------------|-------------|---------|-----------|---|
| | Fractions: Multiply | Find product of 2 fractions or mixed number | product mixed number | | | | 5.NF.4-Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction. 5.NF.6-Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem. |
| | Fractions: Divide | Find quotient of 2 fractions | Quotient inverse reciprocles | | | | 5.NF.7-Apply and extend previous understandings of division to divide unit fractions by |

| | | | | | | | | |
|-------|---|---|---|---|-------------|---------|--|--|
| | | | | | | | whole numbers and whole numbers by unit fractions. | |
| March | MEASUREMENT ~ This unit is taught in Science. | | | | | | | |
| | Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Resources | Standards |
| | | Measurement: Convert, Equivalents | Convert metric units of length using the acronym KHDMDCM (King Henry Drinks Milk During Council Meetings) | Convert decimeter equivalent kilometer measurement metric System Millimeter | | | | 5.MD.1- Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems. |
| | | Length: Customary Equivalent Units | Find equivalent customary units of length | length customary units inches feet yards miles equivalent | | | | |
| | Length: Personal References, Customary Units | Apply appropriate measurement customary units of length to personal | length customary units inches feet yards miles | | | | | |

| | | | | | | | | | | |
|--|---|---|---|--|--|--|--|--|--|---|
| | | references. | length width | | | | | | | |
| | Length: Personal References, metric units | Apply appropriate metric units of measurement to personal references. | length metric units millimeter centimeter meter kilometer | | | | | | | |
| | Estimates: Justification, Reasonableness | Justify the reasonableness of estimates. | estimate justify reasonableness | | | | | | | 5.M.11-Justify the reasonableness of estimates |

Visualization and Spatial Reasoning

| Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Resources | Standards |
|---------------------|----------------------------------|--|--------------------------------|-------------|---------|-----------|--|
| | Measurement: Coordinate Plane | plot and label points in the coordinate plane Label the x and y axis. Write a coordinate as (x,y). Describe the x axis as horizontal and y axis as vertical | quadrant axis coordinate | | | | 5.G.1-Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first |

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| | | | | | | | <p>number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond (e.g., x-axis and x-coordinate, y-axis and y-coordinate).</p> <p>5.G.2- Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.</p> |
|--|--|--|--|--|--|--|--|

| | | | | | | | |
|--|--------------------------|--|--|--|--|--|---|
| | Solids: volume | Find volume of regular and irregular solids | cubic prism base area | | | | 5.MD.3- Recognize volume as an attribute of solid figures and understand concepts of volume measurement. |
| | Measurement: Capacity | Convert customary and metric units of capacity Choose appropriate unit of capacity for a given container | capacity gallon quart pint cup ounce | | | | 5.MD.1- Convert among different- sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems. |
| | measurement: weight | convert customary and metric units of weight choose appropriate unit of measure to weigh a given object | Weight mass ounce pound ton milligram gram kilogram | | | | 5.MD.1- Convert among different- sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving |

| | | | | | | | | |
|-----------------------|---------------------|----------------------------------|--|---|-------------|---------|----------------------------------|---|
| | | | | | | | multi-step, real world problems. | |
| A p r i l | Statistics | | | | | | | |
| | Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Resources | Standards |
| | | Graphs: Conclusions, Predictions | Create conclusions based on the trend of a line graph Develop predictions based on the trend of a line graph. | prediction conclusion trend increase decrease | | | | 5.MD.2- Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this grade to solve problems involving information presented in line plots. |
| | | Graphs: Data Colleciton/Records | Tally data based on sources collected | variety record data sources | | | | 6.SP.1- Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers. |
| J u n e | Number Sense | | | | | | | |
| | Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Resources | Standards |

| | | | | | | | | | | |
|--|----------------------------------|--|--|--|--|--|--|--|--|--|
| | Percent: Fraction, Decimal | Write percents as fractions and decimals Find the percent given a base 10 grid Write the percent when given Write the percent when given a decimal | | | | | | | | |
| | Ratio: Concept | Write a ratio in each of the three formats: 2:3, 2 to 3, $\frac{2}{3}$ | | | | | | | | |

PROBABILITY

| Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Resources | Standards |
|---------------------|---------------------------|--|-----------------------------------|-------------|---------|-----------|---|
| | Outcomes: Single Event | Find the possible outcomes for a single event experiment | outcome | | | | 5.S.5 -List the possible outcomes for a single-event experiment |
| | Fractions: Record Results | Write fraction/ratios for results of experiment | fraction results ratio experiment | | | | 5.S.6 -Record experiment results using fractions/ratios |
| | Sample | Create a | sample | | | | 5.S.7 - |

| | | | | | | | |
|--|---------------------------|---|-------|--|--|--|--|
| | Space: Single Event | sample space given a simple experiment | space | | | | Create a sample space and determine the probability of a single event, given a simple experiment (e.g., rolling a number cube) |
|--|---------------------------|---|-------|--|--|--|--|

STATISTICS

| Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Resources | Standards | | | |
|------------------------|-------------------|--|---|-------------|---------|-----------|-----------|---|--|--|
| | Graphs: line | Draw and label the x and y axis. Title the graph x- axis (time), and y-axis (data). Lable the y-axis using an appropriate scale, interval and label the x-axis with the given change of time. | data formulate line graph conclusion predictions x-axis y- axis label interval scale | | | | | | | |
| | Averages: Mean | Add given set of data. Divide sum by the quantity of data entries. | Mean Set of data | | | | | 6.SP.3- Recognize that a measure of center for a numerical data set | | |

| | | | | | | | |
|--|--|--------------------------------------|--|--|--|--|---|
| | | Draw conclusions using mean results. | | | | | summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number. |
|--|--|--------------------------------------|--|--|--|--|---|

Visualization and Spatial Reasoning

| Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Resources | Standards |
|---------------------|----------------------------------|--|---|-------------|---------|-----------|--|
| | Coordinate Geometry: Form Shapes | Plot points to form geometric shapes in the first quadrant. Identify and classify the geometric shape plotted. | geometric shape plot quadrant identify classify | | | | 5.G.13 -Plot points to form basic geometric shapes (identify and classify) |

Measurement

| Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Resources | Standards |
|---------------------|-------------------------------|--|----------------------------------|-------------|---------|-----------|--|
| | Time: Elapsed, hours, minutes | Calculate elapsed time in hours and minutes. | elapsed hours minutes time | | | | 5.M.7- Calculate elapsed time in hours and minutes |

Algebra

| Essential Questions | Content | Skills | Vocabulary | Assessments | Lessons | Resources | Standards |
|---------------------|-----------|--------|------------|-------------|---------|-----------|-----------|
| | Patterns: | Create | Algebraic | | | | 6.EE.2- |

| | | | | | | | | |
|--|--|--------------------------|---|---|--|--|--|--|
| | | Algebraic, Geometiric | patterns using concrete objects and visual drawings. | pattern geometric pattern rotate shade geometric shape | | | | Write, read, and evaluate expressions in which letters stand for numbers. |
|--|--|--------------------------|---|---|--|--|--|--|