

Name: _____



SAN JUAN DEL SUR DAY SCHOOL

GRADE 5 MATH LEARNING OUTCOMES STUDENT CHECKLIST

UNIT CONCEPT	LESSON TOPIC	LEARNING GOAL
<p>Place Value</p> <p><i>"I am learning to recognize value of digits, compare, order, round, and estimate large numbers and decimals."</i></p>	Numbers to 1 Billion - Representing Numbers (using base 10 models)	<input type="checkbox"/> I can recognize the 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 <input type="checkbox"/> I can explain the powers of ten <input type="checkbox"/> I can count forward and backwards in powers of 10 from any given number up to 1,000,000
	Place Value and Naming Numbers	<input type="checkbox"/> I can read and write numbers to the billions using numerals, number names, and expanded form
	Decimal Place Value	<input type="checkbox"/> I can read, write, and order decimals to the thousandths using numerals, number names, and expanded form
	Comparing and Ordering Decimals	<input type="checkbox"/> I can compare two decimals to the thousandths using <, >, and = <input type="checkbox"/> I can order decimals in the: <ul style="list-style-type: none"> <input type="checkbox"/> Hundredths related to thousandths and tenths <input type="checkbox"/> Thousandths related to tenths
	Rounding and Estimation	<input type="checkbox"/> I can round numbers to any place <input type="checkbox"/> I can use number sense and prior knowledge to estimate the reasonableness of answers
<p>Interpreting Data</p> <p><i>"I am learning to extract information from data."</i></p>	Averages (Mean)	<input type="checkbox"/> I can find the mean (average) of any given set of data
	Line Plots	<input type="checkbox"/> I can make a line plot to display a set of measurements in fractions of a unit <input type="checkbox"/> I can use a line plot to solve a variety of problems
	Line Graphs	<input type="checkbox"/> I can create and read line graphs <input type="checkbox"/> I can represent real world and mathematical problems by graphing and interpreting
	Word Problems	<input type="checkbox"/> I can present discrete data using appropriate charts and graphs <input type="checkbox"/> I can solve sum and difference problems using information presented in line plots, coordinate graphs, and line graphs
<p>Numerical Expressions and Order of Operations</p> <p><i>"I am learning to write and interpret numerical expressions with symbols."</i></p>	Using Variables to Write Expressions	<input type="checkbox"/> I can write simple numerical expressions <input type="checkbox"/> I can use variables to represent an unknown value or number
	Exponents	<input type="checkbox"/> I can use whole-number exponents to show powers of 10 <input type="checkbox"/> I can explain patterns of zeros in an answer when multiplying a number by powers of 10
	Order of Operations (OoO)	<input type="checkbox"/> I can correctly write number sentences using mathematical symbols and the order of operations correctly
	Solving Calculations with Parentheses	<input type="checkbox"/> I can use parentheses, brackets, and/or braces in algebraic expressions <input type="checkbox"/> I can use the order of operations to solve: <ul style="list-style-type: none"> <input type="checkbox"/> 2 operation problems <input type="checkbox"/> 3 operation problems <input type="checkbox"/> 4 operation problems <input type="checkbox"/> 4 operation problems with brackets
	Identifying the Distributive Property	<input type="checkbox"/> I can apply the Distributive Property to solve problems
	Word Problems	<input type="checkbox"/> I can evaluate algebraic expressions with parentheses, brackets, and/or braces <input type="checkbox"/> I can solve positive integer problems in which n objects are connected to m objects (Correspondence problems)
	Review Day	
	Summative Assessment	
<p>Multiplication and Division of Whole Numbers</p> <p><i>"I am learning to I am learning to multiply and divide with multi-digit numbers using formal written method numbers."</i></p>	Multiplication Properties	<input type="checkbox"/> I can apply properties of operations as strategies to multiply and divide (commutative, associative, distributive properties) <input type="checkbox"/> I can multiply multi-digit whole numbers <input type="checkbox"/> I can multiply using formal written method numbers with four digits by one digit
	Mental Math to Multiply	<input type="checkbox"/> I can add, subtract, multiply and divide using various strategies. <input type="checkbox"/> I can mentally compare the size of a product to the size of one of the factors by thinking about the other factor in the problem.
	Dividing by 1- and 2- Digit Divisors	<input type="checkbox"/> I can divide using formal written method numbers with long division <input type="checkbox"/> I can divide four-digit numbers (dividends) by two-digit numbers (divisors)
	Word Problems	<input type="checkbox"/> I can solve up to 3-step problems in context and decide which operations and methods to use <input type="checkbox"/> I can estimate and check answers within multiplication and division <input type="checkbox"/> I can solve problems involving numbers up to three decimal places

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<p style="text-align: center;"><u>Multiplying and Dividing Decimals</u></p> <p style="text-align: center;"><i>"I am learning to multiply and divide decimals using a formal written method."</i></p>	<p style="text-align: center;">Decimal Multiplication and Division with Number Sense</p>	<input type="checkbox"/> I can use number sense and basic facts that I know to estimate the reasonableness of answers to problems
	<p style="text-align: center;">Models for Multiplying Decimals</p>	<input type="checkbox"/> I can multiply decimals (up to 3 decimal places) by 10, 100, 1,000
	<p style="text-align: center;">Dividing by a Whole Number</p>	<input type="checkbox"/> I can divide decimals (up to 3 decimal places) by 10, 100, 1,000
	<p style="text-align: center;">Dividing a Whole Number by a Decimal</p>	<input type="checkbox"/> I can solve problems involving numbers up to three decimal places
	<p style="text-align: center;">Dividing a Decimal by a Decimal</p>	<input type="checkbox"/> I can solve problems involving numbers up to three decimal places
<p style="text-align: center;">Word Problems</p>	<input type="checkbox"/> I can solve 2 step problems in context deciding which operation(s) and method(s) to use <input type="checkbox"/> I can relate the strategies I use to multiply and divide decimals to hundredths to a written problem and explain why I chose the strategies to help me solve the problem	
<p style="text-align: center;"><u>Adding and Subtracting Fractions</u></p> <p style="text-align: center;"><i>"I am learning to use equivalent fractions as a strategy to add and subtract fractions."</i></p>	<p style="text-align: center;">Factor Pairs and Prime Numbers</p>	<input type="checkbox"/> I can find the factor pairs of numbers <input type="checkbox"/> I can identify prime numbers up to 100
	<p style="text-align: center;">Review of Fraction Concepts</p>	<input type="checkbox"/> I can explain a fraction as division of the numerator by the denominator <input type="checkbox"/> I can find equivalent fractions <input type="checkbox"/> I can identify the simplest form of a fraction
	<p style="text-align: center;">Addition and Subtraction of Unlike Fractions</p>	<input type="checkbox"/> I can add and subtract fractions with unlike denominators <input type="checkbox"/> I can use equivalent fractions to add and subtract fractions with unlike denominators
	<p style="text-align: center;">Addition and Subtraction of Mixed Numbers</p>	<input type="checkbox"/> I can represent mixed numbers and improper fractions using pictorial representation
	<p style="text-align: center;">Using Equivalent Decimals to Add and Subtract</p>	<input type="checkbox"/> I can add and subtract numbers in the decimal places with: <ul style="list-style-type: none"> <input type="checkbox"/> similar decimals (2.16+ 3.67) <input type="checkbox"/> unlike decimals (24.1+3.67) <input type="checkbox"/> I can solve 2 step problems in context deciding what operation and method to use
<p style="text-align: center;">Word Problems</p>	<input type="checkbox"/> I can solve word problems that involve addition and subtraction of fractions and decimals <input type="checkbox"/> I can use number sense and fractions that I know to estimate the reasonableness of answers to fraction problems	
<p style="text-align: center;"><u>Multiplying and Dividing Fractions</u></p> <p style="text-align: center;"><i>"I am learning to apply and extend previous understandings of multiplication and division to multiply and divide fractions."</i></p>	<p style="text-align: center;">Product of a Fraction and a Whole Number</p>	<input type="checkbox"/> I can use what I know about multiplication to multiply fractions or whole numbers by a fraction <input type="checkbox"/> I can solve real world problems that involve multiplication of fractions and mixed numbers <input type="checkbox"/> I can create a story to describe the multiplication of a fraction by a whole number and a fraction by a fraction
	<p style="text-align: center;">Product of a Whole Number and a Fraction</p>	<input type="checkbox"/> I can use what I know about multiplication to multiply fractions or whole numbers by a fraction <input type="checkbox"/> I can solve real world problems that involve multiplication of fractions and mixed numbers <input type="checkbox"/> I can create a story to describe the multiplication of a fraction by a whole number and a fraction by a fraction
	<p style="text-align: center;">Product of a Fraction and a Fraction</p>	<input type="checkbox"/> I can use what I know about multiplication to multiply fractions or whole numbers by a fraction <input type="checkbox"/> I can solve real world problems that involve multiplication of fractions and mixed numbers <input type="checkbox"/> I can create a story to describe the multiplication of a fraction by a whole number and a fraction by a fraction
	<p style="text-align: center;">Multiplying Mixed Numbers</p>	<input type="checkbox"/> I can use what I know about multiplication to multiply fractions or whole numbers by a fraction <input type="checkbox"/> I can solve real world problems that involve multiplication of fractions and mixed numbers <input type="checkbox"/> I can create a story to describe the multiplication of a fraction by a whole number and a fraction by a fraction
	<p style="text-align: center;">Dividing a Fraction by a Whole Number</p>	<input type="checkbox"/> I can use what I know about division to divide fractions by whole numbers <input type="checkbox"/> I can divide any two fractions fluently by finding the reciprocal and multiplying
	<p style="text-align: center;">Dividing a Whole Number by a Fraction</p>	<input type="checkbox"/> I can use what I know about division to divide whole numbers by fractions <input type="checkbox"/> I can divide any two fractions fluently by finding the reciprocal and multiplying

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<p style="text-align: center;"><u>Coordinate Geometry</u></p> <p style="text-align: center;"><i>"I am learning to graph points on the coordinate plane to solve real-world and mathematical problems."</i></p>	Ordered Pairs	<input type="checkbox"/> I can identify the parts of a coordinate plane <input type="checkbox"/> I can understand a coordinate plane and ordered pairs of number coordinates on that plane
	Distances on a Coordinate Plane	<input type="checkbox"/> I can plot a given point on the plane using ordered pairs in the first quadrant <input type="checkbox"/> I can represent and interpret real-world and math problems by graphing points on the coordinate plane <input type="checkbox"/> I can form ordered pairs using the relationship between two number patterns and graph them in the first quadrant
	Coordinate Graphs	<input type="checkbox"/> I can identify the parts of a coordinate plane <input type="checkbox"/> I can plot a given point on the plane using ordered pairs in the first quadrant <input type="checkbox"/> I can represent and interpret real-world and math problems by graphing points on the coordinate plane <input type="checkbox"/> I can form ordered pairs using the relationship between two number patterns and graph them in the first quadrant
	Patterns and Graphing	<input type="checkbox"/> I can graph ordered pairs of numbers on a coordinate plane using what I have learned about the x-axis and coordinate and the y-axis and coordinate
	Word Problems	<input type="checkbox"/> I can represent real-world and mathematical problems by graphing points in the first quadrant of a coordinate plane
<p style="text-align: center;"><u>Percents and Ratios</u></p> <p style="text-align: center;"><i>"I am learning to understand ratio concepts and use ratio reasoning to solve problems."</i></p>	Percentages	<input type="checkbox"/> I can recognize the percent symbol (%) and understand it represents parts per hundred <input type="checkbox"/> I can write percentages as a fraction with denominator 100, and as a decimal <input type="checkbox"/> I can find the percent of a number in more than one way
	Ratios and Rates	<input type="checkbox"/> Given a ratio, I can find a unit rate and use it to solve a problem <input type="checkbox"/> I can write a ratio as a part-to-part or part-to-whole in different ways (a:b, a to b, a/b)
	Word Problems	<input type="checkbox"/> I can make sense of what percent means in a real world situation <input type="checkbox"/> I can use ratio and rate reasoning to solve real-world and mathematical problems <input type="checkbox"/> I can use models and pictures to relate concepts of ratio and percent
<p style="text-align: center;"><u>Classifying Plane Shapes</u></p> <p style="text-align: center;"><i>"I am learning to classify two-dimensional figures based on their properties."</i></p>	Polygons	<input type="checkbox"/> I can classify 2-dimensional figures in a hierarchy based on their properties
	Properties of Triangles	<input type="checkbox"/> I can understand how attributes of 2- dimensional shapes in a category also belong to all subcategories of those shapes
	Properties of Quadrilaterals	<input type="checkbox"/> I can classify two dimensional figures in a hierarchy according to their attributes
<p style="text-align: center;"><u>Measurement: Area and Volume</u></p> <p style="text-align: center;"><i>"I am learning to apply concepts of area and relate area to volume."</i></p>	Square Units/Area of Rectangles	<input type="checkbox"/> I can use a formula to calculate the area of a rectangle with fractional side lengths and prove that it is the same as multiplying the side lengths
	Area of a Triangle	<input type="checkbox"/> I can use what I know about area to calculate the area of a triangle
	Area of a Parallelogram	<input type="checkbox"/> I can use what I know about area to calculate the area of a parallelogram
	Area of Irregular Shapes	<input type="checkbox"/> I can estimate and calculate area of irregular shapes
	Volume	<input type="checkbox"/> I can recognize volume as a characteristic of solid figures and understand how it can be measured <input type="checkbox"/> I can identify that a cubic unit is used to measure the volume of a three-dimensional object <input type="checkbox"/> I can multiply the three dimensions in any order to calculate volume <input type="checkbox"/> I can find the volume of a solid figure made of two rectangular prisms by adding the volumes of the two parts
	Word Problems	<input type="checkbox"/> I can find volume of right rectangular prisms to solve real-world problems <input type="checkbox"/> I can use a formula to find the area of rectangles, squares, triangles, and parallelograms to solve real-world problems