Name: _____

SAN JUAN DEL SUR DAY SCHOOL
GRADE 4 MATH LEARNING OUTCOMES STUDENT CHECKLIST

UNIT CONCEPT	LESSON TOPIC	LEARNING GOAL
Place Value *"I am learning to read, write, and count numbers, recognize value of digits, compare, round, and order numbers."*	**Numbers to 100,000 - Representing Numbers (using base 10 models)**	☐ I can find 1,000 more than and less than a given number ☐ I can recognize place value of digits in 6 digit places
	Place Value and Naming Numbers	☐ I can read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form
	Comparing and Ordering Numbers	☐ I can compare and order numbers using greater than, less than, and equal signs (> < =) up to 100,000
	Ordering Numbers on a Number Line	☐ I can compare and order numbers using greater than, less than, and equal signs (> < =) up to 100,000

	Estimation and Rounding	☐ I can estimate answers with some degree of accuracy in:
		  ☐ Addition
		  ☐ Subtraction
		  ☐ Multiplication
		  ☐ Division
		☐ I can round numbers to the nearest 10
		☐ I can round numbers to the nearest 100

Interpreting Data *"I am learning to extract information from data."*	**Tables**	☐ I can use and interpret tables to compare data ☐ I can present discrete data using appropriate charts and graphs ☐ I can solve sum and difference problems using information presented in: pictograms bar charts, tables and other graphs
	Pictographs	☐ I can interpret pictograms ☐ I can complete a pictogram from given data ☐ I can organize, represent, and interpret data in a pictogram with varying symbols I can solve sum and difference problems using information presented in pictograms
	Bar Graphs (Bar Charts)	☐ I can complete a bar graph from given data ☐ I can interpret horizontal and vertical bar graphs ☐ I can organize, represent, and interpret data in a bar graph with a scaled axis ☐ I can solve sum and difference problems using information presented in bar charts and other graphs
	Line Plots	☐ I can complete a line plots from given data ☐ I can organize, represent, and interpret data in a line plot ☐ I can solve sum and difference problems using information presented in graphs
	Presenting Data with Charts & Graphs	☐ I can present discrete data using appropriate charts and graphs ☐ I can solve sum and difference problems using information presented in: pictograms bar charts, tables and other graphs
Number Sense: Addition and Subtraction *"I am learning to add and subtract numbers using different methods."*	**Adding and Subtracting 4-Digit Numbers**	☐ I can add numbers up to 4 digits using a formal written method ☐ I can use inverse operations to check my answers

	Mental Math - Addition and Subtraction	☐ I can add and subtract numbers mentally, including:
		  ☐ HTU+U
		  ☐ HTU+T
		  ☐ HTU+H
		  ☐ HTU-U
		  ☐ HTU-T
		  ☐ HTU-H

	Subtracting Across Zero	☐ I can subtract across zeros using regrouping and other strategies
	Addition and Subtraction Word Problems	☐ I can solve addition and subtraction two-step problems deciding which operation and method to use I can use inverse operations to check my answers ☐ I can solve 2-step word problems involving addition and subtraction ☐ I can solve positive integer problems in which n objects are connected to m objects (Correspondence problems)
Time *"I am learning to tell, write, read, estimate, and compare between units of time."*	**Time Conversions**	☐ I can read an analog and digital clock with accuracy ☐ I can write the time on an analog and digital clock with accuracy ☐ I can convert between units of time including: ☐ Hours to minutes ☐ Minutes to hours ☐ Years to months ☐ Weeks to days
	Elapsed Time	☐ I can compare time in terms of seconds, minutes and hours ☐ I can read an analog and digital clock with accuracy ☐ I can organize, represent, and interpret data on a clock
	Problem Solving with Time	☐ I can solve problems using time conversions ☐ I can solve 2-step word problems involving 4 operations and elapsed time

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Multiplication and Division of Whole Numbers *"I am learning to calculate multiplication and division problems."*	**Reviewing Relationship Between Multiplication and Division**	☐ I can multiply and divide using formal written method ☐ I can estimate and check answers within multiplication and division.
	Properties of Multiplication and Division	☐ I can apply properties of operations as strategies to multiply and divide (commutative, associative, distributive properties) ☐ I can determine if a number is a factor of a given number.
	Multiples	☐ I can list up to 12 multiples of a given number ☐ I can show how a whole number is a multiple of each of its factors
	Factors	☐ I can list all factors of a given number up to 100 ☐ I can determine the numbers between 1-100 that are prime.
	Common Multiples	☐ I can determine if a whole number between 1 and 100 is a multiple of a particular one digit number.
	Word Problems	☐ I can solve up to 3-step problems in context and decide which operations and methods to use ☐ I can estimate and check answers within multiplication and division ☐ I can solve positive integer problems in which n objects are connected to m objects (Correspondence problems)
Multi-Digit Multiplication and Division *"I am learning to solve multi-digit multiplication problems using formal written methods."*	**Multiplication by Tens**	☐ I can multiply using formal written method numbers with: 　☐ Two digits by one digit 　☐ Three digits by one digit
	Multiplying by a 2-Digit Number	☐ I can multiply using formal written method numbers with: 　☐ Two digits by one digit 　☐ Three digits by one digit
	Multiplying a 2-Digit Number by a 2-Digit Number	☐ I can multiply using formal written method using numbers with: 　☐ Two digits by two digits
	Estimation in Multiplication and Division	☐ I can estimate and check answers within multiplication and division.
	Division with Remainders and Long Division	☐ I can divide using formal written method using numbers with: 　☐ Two digits divided by one digit 　☐ Three digits by one digit
	Word Problems	☐ I can solve up to 3-step problems in context and decide which operations and methods to use
Exploring Fractions *"I am extending my understanding of fraction equivalence and ordering."*	**Equivalent Fractions**	☐ I can recognize equivalent fractions; up to 8 equivalents ☐ I can create and explain equivalent fractions using visual models ☐ I can solve problems by calculating quantities with: 　☐ Smaller fractions (1/2,1/4,1/3, ¾) 　☐ Fractions with a denominator up to 12ths 　☐ The answer equaling a whole ☐ I can express fractions in the simplest form
	Comparing Fractions	☐ I can compare two fractions using various strategies ☐ I can compare fractions to a half ☐ I can compare and order unlike fractions
	Adding and Subtracting Fractions	☐ I can add and subtract fractions with increasing denominator ☐ I can add and subtract fractions with up to 2 different denominators
	Mixed Numbers	☐ I can add and subtract fractions with up to 2 different denominators
	Improper Fractions	☐ I can compare two fractions using various strategies
	Converting Mixed Numbers and Improper Fractions	☐ I can express: 　☐ An improper fraction as a mixed number 　☐ A mixed number as an improper fraction 　☐ An improper fraction/mixed number in the simplest form
	Word Problems	☐ I can solve real-world problems involving addition and subtraction of fractions ☐ I can add and subtract mixed numbers with like denominators using a variety of strategies ☐ I can solve up to 3-step problems in context and decide which operations and methods to use

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Operations on Fractions *"I am extending my understanding of fractions."*	**Adding and Subtracting Related Fractions**	☐ I can add and subtract fractions with increasing denominator
	Multiplying a Fraction and a Whole Number	☐ I can apply and extend previous understandings of multiplication to multiply a fraction by a whole number ☐ I can explain how a fraction a/b is a multiple of 1/b ☐ I can use a visual fraction model to justify multiplying a fraction by whole number
	Fractions of a Set	☐ I can use unit fractions to divide quantities
	Word Problems	☐ I can solve word problems involving multiplication of a fraction by a whole number, e.g., by using visual fraction models and equations to represent the problem ☐ I can solve positive integer problems in which n objects are connected to m objects (Correspondence problems)
Decimals *"I am learning to recognize and write decimals and their equivalents."*	**Relating Fractions and Decimals**	☐ I can change fractions with denominators of 10 or 100 to decimals and can explain how these decimals differ in size ☐ I can write a fraction with denominators of 10 or 100 as decimals ☐ I can write decimal equivalents to ¼,1/2, ¾
	Tenths	☐ I can recognize decimal equivalents of any number in the tenths ☐ I can write decimal equivalents of any number in the tenths ☐ I can use the number line to display decimals

	Hundredths	☐ I can recognize decimal equivalents of any number in the hundredths
		☐ I can write decimal equivalents of any number in the hundredths
		☐ I can use the number line to display decimals
		☐ I can count:
		  ☐ Up in hundredths
		  ☐ Down in hundredths

	Comparing Decimals	☐ I can identify the value of each digit up to 2 decimal places. (E.g. 1.23 = ones, tenths, hundredths) ☐ I can compare and order decimals in the hundredths ☐ I can compare two decimals, explain my reasoning, and record the results using <, >, or = ☐ I can explain that comparisons between two decimals are only valid when they refer to the same whole
	Adding and Subtracting Decimals	☐ I can add numbers up to 4 digits using a formal written method ☐ I can use inverse operations to check my answers

	Rounding	☐ I can round decimals to:
		  ☐ The nearest whole number
		  ☐ 1 decimal place
		  ☐ 2 decimal places

	Word Problems	☐ I can identify the value of each digit up to 2 decimal places. (E.g. 1.23 = ones, tenths, hundredths) ☐ I can use the four operations to solve word problems using simple fractions and decimals
Multiplying and Dividing Decimals *"I am learning to recognize and write decimals and their equivalents."*	**Multiplying Decimals by Powers of 10**	☐ I can explain patterns when multiplying a number by powers of 10
	Multiplication of Decimals by Whole Numbers	☐ I can multiply and divide using formal written method ☐ I can estimate and check answers within multiplication and division

	Dividing Decimals by Powers of 10	☐ I can recognize:
		  ☐ that hundredths arise from dividing numbers by 100
		  ☐ that hundredths arise from dividing tenths by 10

	Dividing Decimals and Whole Numbers	☐ I can multiply and divide using formal written method ☐ I can estimate and check answers within multiplication and division
	Word Problems	☐ I can solve word problems involving multiplication of a fraction by a whole number using visual fraction models and equations

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Geometry - Lines and Angles *"I am learning to how to draw and identify lines and angles and use these to classify shapes."*	**Points, Lines, Line Segments, and Rays**	☐ I can identify horizontal and vertical lines ☐ I can identify and draw pairs of perpendicular and parallel lines ☐ I can draw, measure, and explain different concepts of angles.

	Measuring Angles	☐ I can recognize that:
		  ☐ 1 right angle makes one quarter turn. (90*)
		  ☐ 2 right angles make a half turn (180*)
		  ☐ 3 right angles make three quarters of a turn (270*)
		  ☐ 4 right angles make a complete turn (360*)
		☐ I can measure and draw angles in whole-number degrees using a protractor
		☐ I can identify whether angles are less than or greater than a right angle (acute and obtuse)
		☐ I can compare and order angles up to 2 right angles (angles under 90 degrees)

	Quadrilaterals	☐ I can draw 2D shapes given different dimensions and angles ☐ I can compare shapes including quadrilaterals based on their properties and sizes
	Triangles	☐ I can draw 2D shapes given different dimensions and angles ☐ I can compare shapes including triangles based on their properties and sizes
	Circles	☐ I can illustrate and name parts of a circle including radius, diameter, circumference ☐ I know that the diameter is twice the radius of a circle ☐ I can describe properties of circles
	Symmetry	☐ I can identify the line of symmetry in 2D shapes (including different orientations) ☐ I can draw a simple symmetrical figure with respect to a specific line of symmetry
	Word Problems	☐ I can solve real-world problems involving addition and/or subtraction to find unknown angles on a diagram.
Area & Perimeter *"I am learning to apply the area and perimeter formulas for shapes in real world and mathematical problems."*	**Reviewing Area of Rectangles**	☐ I can measure area of a shape by counting squares expressed in square units
	Reviewing Perimeter of Plane Shapes	☐ I can measure the perimeter of 2D shapes using meters
	Perimeter of Composite Figures	☐ I can use a formula to calculate the perimeter of a composite figure
	Area of Composite Figures	☐ I can estimate answers with some degree of accuracy using the four operations ☐ I can solve a problem by working a simpler problem
	Word Problems	☐ I can use the four operations to solve word problems expressing measurements given in a larger unit in terms of a smaller unit ☐ I can solve a problem by working a simpler problem ☐ I can explain how unit size affects the measurement and can solve real world problems involving measurement, perimeter, and area
Volume *"I am learning to measure and calculate volume using cubic units."*	**Exploring Volume**	☐ I can estimate answers with some degree of accuracy using the four operations ☐ I can solve a problem by working a simpler problem
	Word Problems	☐ I can solve real-world problems that require arithmetic with liquid volumes I can solve a problem by working a simpler problem