

## A PACIFIC CHARTER INSTITUTE SCHOOL

## Mathematics Arts State Standards Grade 2

by 2s). 2.OA.3

Second grade students extend their understanding of the base-ten number system. They develop fluency with addition and subtraction within 100. Students use standard units of measure (centimeter and inch), and they describe the sides and angles of shapes. Second graders explain their math reasoning, use tools to solve math problems, and work with equal groups of objects to gain foundations for multiplication.

Standards for Mati	nematical Practice – "HOW" My
	nath problem, create & use a plan to solve it, and check
if the answer i	· · · · · · · · · · · · · · · · · · ·
make sense	e of and flexibly use math symbols, numbers, and operations.
	, drawings, diagrams, actions and words to explain his/her approach problem and decide if others' strategies make sense.
☐ recognize ı	math in everyday life and use math to solve real problems.
deepen u and expla	.g., ruler, concrete models, paper/pencil) to solve problems and nderstanding. calculate accurately, use precise math vocabulary, in problems/solutions clearly. describe how numbers and shapes are as parts and wholes.
notice whe shortcuts.	n calculations are repeated, and look for general "rules" and
Math Content Stan Algebraic Thinking	dards – "WHAT" Addition and Subtraction (Operations and ) My student can:
use additio	n and subtraction within 20 to solve word problems. 1.OA.1
□ use additio problems.	n and subtraction within 100 to solve one- and two-step word 2.OA.1
to solve a	(e.g., drawings, equations with a symbol for the unknown number) ddition and subtraction word problems with unknowns in all positions $24 = 48$ ; $57 - \underline{\hspace{0.5cm}} = 29$ ). 2.OA.1
	d and subtract within 20 using mental strategies (e.g., making ten, on). 2.0A.2
☐ memorize of 2.OA.2	all addition facts of two one-digit numbers (e.g., $2 + 5 = 7$ ; $4 + 4 = 8$ ).
group obje	cts to tell if the total number is odd or even (e.g., pair objects, count

	use repeated addition of objects (up to 5 rows and 5 columns) to show basic understanding of multiplication. 2.OA.4
	ber Sense and Place Value (Number and Operations in Base Ten) My ont can:
	tell how many hundreds, tens and ones are in a three-digit number. NBT.1
	understand that 100 can be thought of as a bundle of ten tens – called a "hundred". 2NBT.1
	count to 1000, starting at any number; skip-count to 1000 by 2s, 5s, 10s and 100s. 2.NBT.2
	read and write numbers to 1000 using base-ten numerals (643 = 6 hundreds, 4 tens, 3 ones), number names (643 = six hundred forty-three) and expanded form (643 = $600 + 40 + 3$ ). 2.NBT.3
	$\square$ compare three-digit numbers using <, =, and > (e.g., 243 < 512). 2.NBT.4
	add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction. 2.NBT.5
	add up to four two-digit number (e.g., 24 + 14 + 32 + 47 =) using strategies based on place value and properties of operations. 2.NBT.6
	add and subtract within 1000 using regrouping. 2.NBT.7
	mentally add and subtract 10 or 100 to a given number between 100-900. NBT.8
	explain why addition and subtraction strategies work (e.g., regrouping, mentally adding ten). 2.NBT.9
	urement and Data My
stuae	nt can:  select the appropriate tool (e.g., ruler, yardstick) to measure the length of an
	object. 2.MD.1
	measure the length of an object twice using two different units of measurement (e.g., inches vs. centimeters); compare measurements. 2.MD.2 estimate the lengths of objects using inches, feet, centimeters, and meters.  2.MD.3
	compare the lengths of two different objects, expressing the difference in inches, centimeters, feet or meters. 2.MD.4
	use addition and subtraction to solve word problems involving the lengths of objects. 2.MD.5
	use a number line to show addition and subtraction within 100. 2.MD.6
	tell and write time to the nearest five minutes, using a.m. and p.m. 2.MD.7 solve word problems involving dollar bills, quarters, dimes, nickels & pennies (e.g., If you have 2 dimes and 3 pennies, how many cents do you have?).  2.MD.8
	use \$ and ¢ symbols appropriately to write money amounts. 2.MD.8
	make a table to organize data. 2.MD.9
	use measurement data (e.g., lengths of several objects to the nearest whole

unit) to make a line plot. 2.MD.9
draw a picture graph and a bar graph to represent data with up to four categories. 2.MD.10
solve simple put-together, take-apart, & compare problems using information on a bar graph. 2.MD.10
Geometry
My student can:
name & draw shapes having specific attributes (e.g., a specific number of angles or equal faces). 2.G.1
identify triangles, quadrilaterals, pentagons, hexagons, and cubes. 2.G.1 divide a rectangle into equal rows and columns; count to find the total number of same-size squares created. 2.G.2
divide circles and rectangles into two, three or four equal parts; describe the parts using the words halves, thirds, half of, a fourth of, etc.; describe the whole circle or rectangle as two halves, three thirds, or four fourths. 2.G.3