Grade 3 Math Planner

	Number	Space	Measurement, Chance and Data	Structure	Working Mathematically
1st Quarter	• Use of place values (as the idea that 'ten of these is one of those') to determine the size and order of whole numbers to hundreds of thousands • reading numbers in words up to one million • rounding and grouping of number up to the 1000s (including colones examples) • addition and subtraction of numbers and amounts of money including calculation of change from ₡ 100,000 • Understand the inverse relationship between addition and subtraction • Counting by 1, 2, 3, 5, 10, 100, 1000 and review multiplications tables	• Use of "vertical" and "horizontal" to describe orientation	• Estimation and measurement of **capacity** and **volume** of common objects (SI and non-SI units) • Display of data as a column or bar graph • Construction of an appropriately labeled bar graph	• Use of "=" to indicate the equivalence or the result of a computation • Construction of number sentences	• Identification of mathematical vocabulary for each operation: _____ _____ _____ _____ _____ • se of models and materials to solve problems and explain answers (Money Value bags) • Identification of patters and similarity in data sets and shapes, and use of patterns as a problem solving strategy • check the accuracy of calculations with inverse operations • Use of art material to create and manipulate shapes

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	Number	Space	Measurement, Chance and Data	Structure	Working Mathematically
2nd Quarter	• Reinforcement of addition with carrying • Reinforcement of subtraction with borrowing • rounding of amounts of numbers and money up and down to the nearest thousand (colones) • Tables of 4, 6, 7, 8, 9, 10, 11, 12 • Calculations of "x 100" and "x 1000" • Two and three digit multiplications	• Recognition, naming and drawing of familiar two-dimensional shapes • Recognition and naming of familiar three-dimensional shapes	• Estimation and measurement of **time** and **temperature** of common objects (hours, minutes and seconds for time, Celsius for temperature) • Use of an analog watch to the nearest quarter of an hour • Use of a thermometer to measure temperature • Display of data as a column or bar graph • Construction of an appropriately labeled bar graph	• Variation of order and grouping of addition (commutative property and associative property) to facilitate computations; for example, 3 + 5 + 7 + 5 = 3 + 7 + 5 + 5 = 10 + 10 = 20 • Knowledge of the effect of multiplying by 10, 100, 1000 • Use of lists and Venn Diagrams	• Identification of mathematical vocabulary for each operation: _____ _____ _____ _____ _____ • Use of models and materials to solve problems and explain answers (Yathsee, Bingo) • Identification of patters and similarity in data sets and shapes, and use of patterns as a problem solving strategy • check the accuracy of calculations with inverse operations • Use of art material to create and manipulate shapes

Grade 3 Math Planner

	Number	Space	Measurement, Chance and Data	Structure	Working Mathematically
3rd Quarter	• Reinforce multiplication • Understand the inverse relationship between multiplication and division • Division of one and two digit numbers (long division)	• Recognize and apply the combined transformation of shaped (flip, slide, turn, enlarge)	• Estimation and measurement of **weight** and **length** of common objects (grams, Kilograms, centimeters, meters, kilometers) • Estimation with personal units such as “arm length”, “feet”, “arm spam”. • Use of a ruler and tape measure to validate estimates of length • Display of data as a column or bar graph • Construction of an appropriately labeled bar graph	• Construction of number sentences • Knowledge of the effect of dividing by 10, 100, 1000	• Identification of mathematical vocabulary for each operation: _____ _____ _____ _____ _____ • Use of models and materials to solve problems and explain answers (Measuring Tools) • Identification of patters and similarity in data sets and shapes, and use of patterns as a problem solving strategy • check the accuracy of calculations with inverse operations • Use of art material to create and manipulate shapes

Grade 3 Math Planner

	Number	Space	Measurement, Chance and Data	Structure	Working Mathematically
4th Quarter	• Reinforcement of addition with carrying • Reinforcement of subtraction with borrowing • Reinforce multiplication and division • Use of fractions with numerators other than one, for example ¾ of a box of chocolate • Development and use of fraction notation and recognition of equivalent fractions such as ½ = $^2/_4$	• Identification of shapes in terms of faces, edges and vertices • Introduction to angles, lines and planes • Calculate area and perimeter of two-dimensional figures (square, rectangle, triangle) • use of a grid to refer to objects on a map	• Identification of events which are equally likely • Construction of an appropriately labelled bar graph • Review estimation and measurement of **weight, length, time, capacity, volume and weight**	• Calculations such as '3 + 5 – 2 =' • Use of lists • Use of a map and a grid	• Identification of mathematical vocabulary for each operation: _____ _____ _____ _____ _____ • Use of models and materials to solve problems and explain answers (Maps, Atlas, Fraction Bags and Pizza Models) • Identification of patters and similarity in data sets and shapes, and use of patterns as a problem solving strategy • check the accuracy of calculations with inverse operations • Use of art material to create and manipulate shapes