	Number			Space	N	Neasurement, Chance and Data	Structure		Working Mathematically	
1 st Quarter	•	use of place value (as an idea of "ten of these is one of those") to determine de size and order of whole numbers to 100,000 determine size and order of numbers to 100,000 skip count forwards and backwards, from various starting points using multiples of 2, 3, 4, 5, 10, 20, 50, and 100 estimate the results of computations and recognize whether these are likely to be over- estimated or under- estimated	•	knowledge of the names of polygons using Greek prefixes; for example, pentagon and hexagon recognition and description of different polygons representation of an object by drawing its plan	•	comparison of the likelihood of everyday events and linking events with statements about how likely are they to occur	•	use distributive property in calculations; for example, 6 x 37 = 6 x 30 + 6 x 7 construction of lists, Venn diagrams and grids for recording combinations of two attributes	•	Identification of mathematical vocabulary for each operation:

	Number	Space	Measurement, Chance and Data	Structure	Working Mathematically
2 nd Quarter	 use of written number sentences such as 20 ÷ 5 = 4 to summarize sharing (partition) and "how many" processes use of fractions with numerators other than one; for example, ¾ of a block of chocolate round numbers up and down to the nearest unit, ten, hundred, or thousand develop fraction notation and compare simple common fractions such as ½ < ¾ using physical models 	 recognize and describe the directions of lines as vertical, horizontal or diagonal 	 comparison of the likelihood of everyday events and linking events with statements about how likely are they to occur describe the fairness of events in qualitative terms recognize different types of data: non-numerical separate numbers continuous numbers 	 use distributive property in calculations; for example, 6 x 37 = 6 x 30 + 6 x 7 use number properties in combination to facilitate computations (for example 7 + 10 + 13 = 7 + 13 + 10 = 20 + 10 = 30) construction of lists, Venn diagrams and grids for recording combinations of two attributes recognize that the sharing of a collection into equal sized parts (division) frequently leaves a remainder 	 Identification of mathematical vocabulary for the quarter:

	Number	Space	Measurement, Chance and Data	Structure	Working Mathematically
3 rd Quarter	 (mentally) compute with numbers up to 20 using all four operations provide automatic recall of multiplication facts up to 12 x 12 representation of multiplication as a rectangular array use algorithms for the addition and subtraction of numbers to two decimal places use of place value to determine de size and order of decimals numbers up to hundredths 	 Use of a graphical scale to determine actual size and distance from a map Construction or selection of possible objects given a plan (bird's eye view) or an elevation (side view) Representation of relationships within a family (people or animals) through use of a tree diagram (network) Interpretation of maps of their own immediate environment using various scales; for example, school ground, suburb, state, country 	 calculation of area through multiplication of the length of a rectangle by its width estimation of angle in terms of quarter turns and half turns 	 use distributive property in calculations; for example, 6 x 37 = 6 x 30 + 6 x 7 construction of lists, Venn diagrams and grids for recording combinations of two attributes understand the meaning of "=" in mathematical statements 	 Identification of mathematical vocabulary for the quarter:

		Number		Space	N	leasurement, Chance and Data		Structure	V	Vorking Mathematically
4 th Quarter	•	 devise and use written methods for: whole number problems of addition and subtraction involving numbers up to 1000 multiplication by single digit (using recall of multiplication tables) and multiples of ten (for example, 5 x 100, 5 x 70) division by a two-digit divisor addition and subtraction of numbers to two decimal places, including situations involving money 	•	recognize angles as the result of rotation of lines with a common end-point recognize and name common three- dimensional shapes such as spheres, prisms and pyramids produce simple tessellations (for example, using triangles, rectangles and hexagons) and puzzles such as tangrams Locate and identify points on a map and a diagram	•	estimate measurements of length, area, volume, mass and time, and discuss the use of appropriate measuring tools use of column and bar graphs to display the results of an experiment (for example, the frequencies of possible categories)	•	investigate sequences of decimal numbers generated using multiplication and division by 10	•	Identification of mathematical vocabulary for each operation: