

Progression in Mathematics – Year 2

Pupil name

Class/ Group (s)

Date (from - to)

	Dimension 1 – Number			Dimension 2 - Measurement	
	Aspect 1 – Place Value	Aspect 2 – Four Rules	Aspect 3 – Fractions (including decimals and percentages)	Aspect 4 – Measurement	
Year 2	<ul style="list-style-type: none"> Counts in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward Recognises the place value of each digit in a two-digit number (tens, ones) Identifies, represents and estimates numbers using different representations, including the number line Compares and orders numbers from 0 up to 100 Uses <, > and = signs Reads and writes numbers to at least 100 in numerals and in words Uses place value and number facts to solve problems 	<ul style="list-style-type: none"> Solves problems with addition and subtraction: <ul style="list-style-type: none"> using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods Recalls and uses addition and subtraction facts to 20 fluently, and derives and uses related facts up to 100 Adds and subtracts numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> a two-digit number and ones a two-digit number and tens two two-digit numbers adding three one-digit numbers Shows that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot Recognises and uses the inverse relationship between addition and subtraction and uses this to check calculations and missing number problems Recalls and uses multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers Calculates mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs Shows that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot Solves problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. 	<ul style="list-style-type: none"> Recognises, finds, names and writes fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity Writes simple fractions e.g. $\frac{1}{2}$ of 6 = 3 and recognises the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$. 	<ul style="list-style-type: none"> Chooses and uses appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}$C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Compares and orders lengths, mass, volume/capacity and record the results using >, < and = Recognises and uses symbols for pounds (£) and pence (p) and combines amounts to make a particular value Finds different combinations of coins that equal the same amounts of money Solves simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change Compares and sequences intervals of time Tells and writes the time to five minutes, including quarter past/to the hour and draws the hands on a clock face to show these times Knows the number of minutes in an hour and the number of hours in a day 	

	Dimension 3 – Geometry		Dimension 4 – Statistics	Dimension 5 - Algebra	Dimension 6 – Ratio and Proportion
	Aspect 5 – Properties of shapes	Aspect 6 – Position and direction	Aspect 7 – Statistics	Aspect 8 – Algebra	Aspect 9 – Ratio and Proportion
Year 2	<ul style="list-style-type: none"> Identifies and describes the properties of 2-D shapes, including the number of sides and symmetry in a vertical line Identifies and describes the properties of 3-D shapes, including the number of edges, vertices and faces Identifies 2-D shapes on the surface of 3-D shapes, (for example a circle on a cylinder and a triangle on a pyramid) Compares and sorts common 2-D and 3-D shapes and everyday objects 	<ul style="list-style-type: none"> Orders and arranges combinations of mathematical objects in patterns and sequences Uses mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise) 	<ul style="list-style-type: none"> Interprets and constructs simple pictograms, tally charts, block diagrams and simple tables Asks and answers simple questions by counting the number of objects in each category and sorting the categories by quantity Asks and answers questions about totalling and comparing categorical data 		

Overall assessment (tick one box only) **Emerging Year 2** **Developing Year 2** **Secure Year 2**

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