The Eliot Bank and Gordonbrock Schools Federation

MATHEMATICS - YEAR 2 CURRICULUM OVERVIEW

Mathematics Curriculum Map

Year 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number **Place value**			Number **Addition and subtraction**				Number **Multiplication and division**				Assess, review and consolidate
Spring	Number **Place value**	Geometry **Shape**		Number **Addition and subtraction**		Measurement **Money**		Number **Fractions**		Statistics		Assess, review and consolidate
Summer	Number **Fractions**		Measurement **Time**		Geometry **Position and direction**	Measurement **Length and height**	Number **Multiplication and division**		Measurement **Mass, capacity and temperature**		Number **Addition and subtraction**	Assess, review and consolidate

Objectives and Vocabulary

Year 2	Strand	Objectives	Vocabulary
	Number **Place value**	- count in steps of 2, 3, and 5 from 0, and in 10s from any number, forward and backward - recognise the place value of each digit in a two-digit number (10s, 1s) - identify, represent and estimate numbers using different representations, including the number line - compare and order numbers from 0 up to 100; use <, > and = signs - read and write numbers to at least 100 in numerals and in words - use place value and number facts to solve problems	Numbers to one hundred, hundreds, partition, recombine, more/less, cardinal number, ordinal, directed number, relation, relationship
	Number **Addition and subtraction**	- solve problems with addition and subtraction: - using concrete objects and pictorial representations, including those involving numbers, quantities and measures - applying their increasing knowledge of mental and written methods - recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 - add and subtract numbers using concrete objects, pictorial representations, and mentally, including: - a two-digit number and 1s - a two-digit number and 10s 2 two-digit numbers - adding 3 one-digit numbers - show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another cannot - recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems	Associative for + and X binary operation , compensation (in calculation)mental calculation, integers, multiples, multiplication table, notation, product, repeated addition, repeated subtraction, row The four operations
	Number **Multiplication and division**	- recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers - calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs	Associative for + and X binary operation , compensation (in calculation)mental calculation, integers, multiples, multiplication table, notation, product, repeated addition, repeated subtraction, row

		• show that multiplication of 2 numbers can be done in any order (commutative) and division of 1 number by another cannot • solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	The four operations
	Number **Fractions**	• recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity • write simple fractions, for example $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$	Three quarters, one third, a third, equivalence, equivalent
	Measurement	• choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels • compare and order lengths, mass, volume/capacity and record the results using >, < and = • recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value • find different combinations of coins that equal the same amounts of money • solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change • compare and sequence intervals of time • tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times • know the number of minutes in an hour and the number of hours in a day	Quarter past/to, metres, kilometers, grams, kilograms, millimeters, litres, temperature, degrees,cent (100) standard unit,temperature
	Geometry **Shape**	• identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line • identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces • identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] • compare and sort common 2-D and 3-D shapes and everyday objects	Properties Size, bigger, larger, smaller, symmetrical, line of symmetry,axis of symmetry fold, match, mirror line, reflection, pattern, repeating pattern,composite shape, geometrical, oblong, octagon,

			pentagon, hexagon, polygon, prism, quadrilateral pyramid
	Geometry **Position and direction**	- order and arrange combinations of mathematical objects in patterns and sequences - use 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)	Rotation, clockwise, anticlockwise, straight line, ninety degree turn, right angle
	Statistics	- interpret and construct simple pictograms, tally charts, block diagrams and tables - ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity - ask-and-answer questions about totalling and comparing categorical data	Count, tally, sort, vote, graph, block graph, pictogram, bar chart, carroll diagram, column graph represent, group, set, list, categorical data, table, label, title, most popular, most common, least popular, least common, continuous data, frequency, maximum

	Problem solving vocabulary	Predict, describe the pattern, describe the rule, find, find all, find different, investigate conjecture, counter example, general statement, generalize, sort, prove