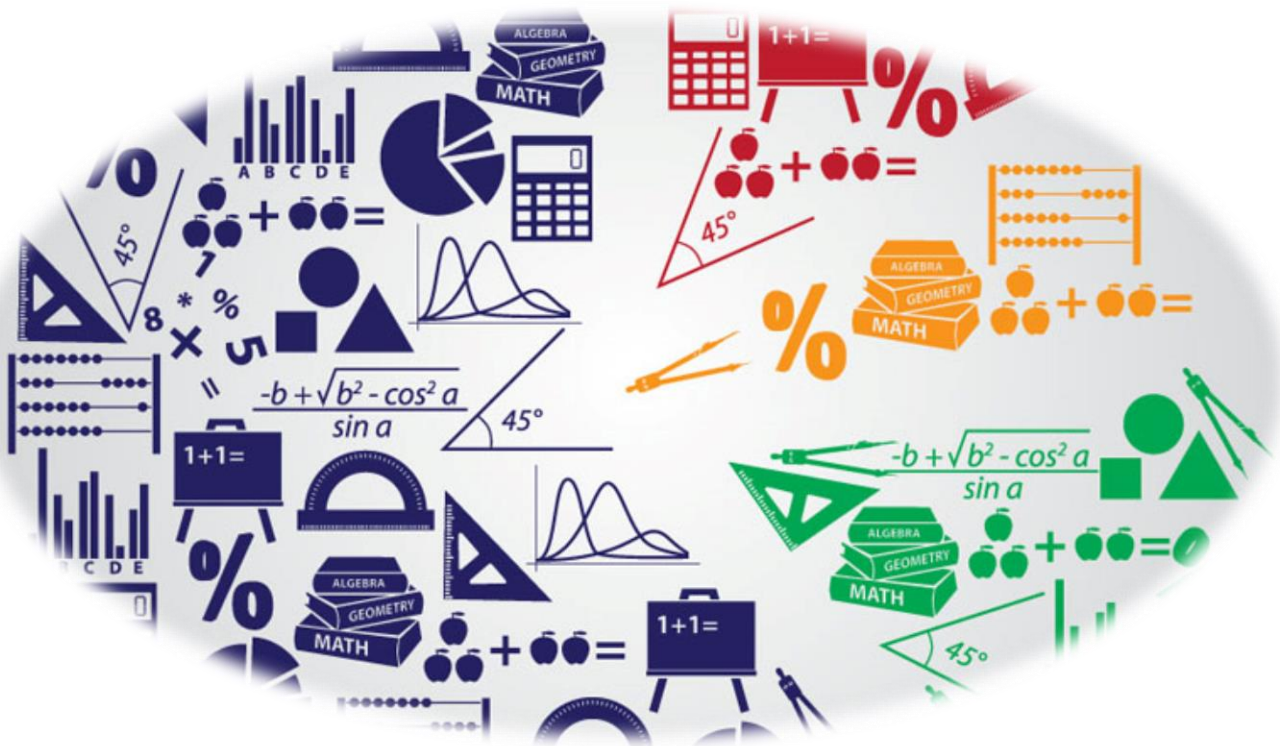
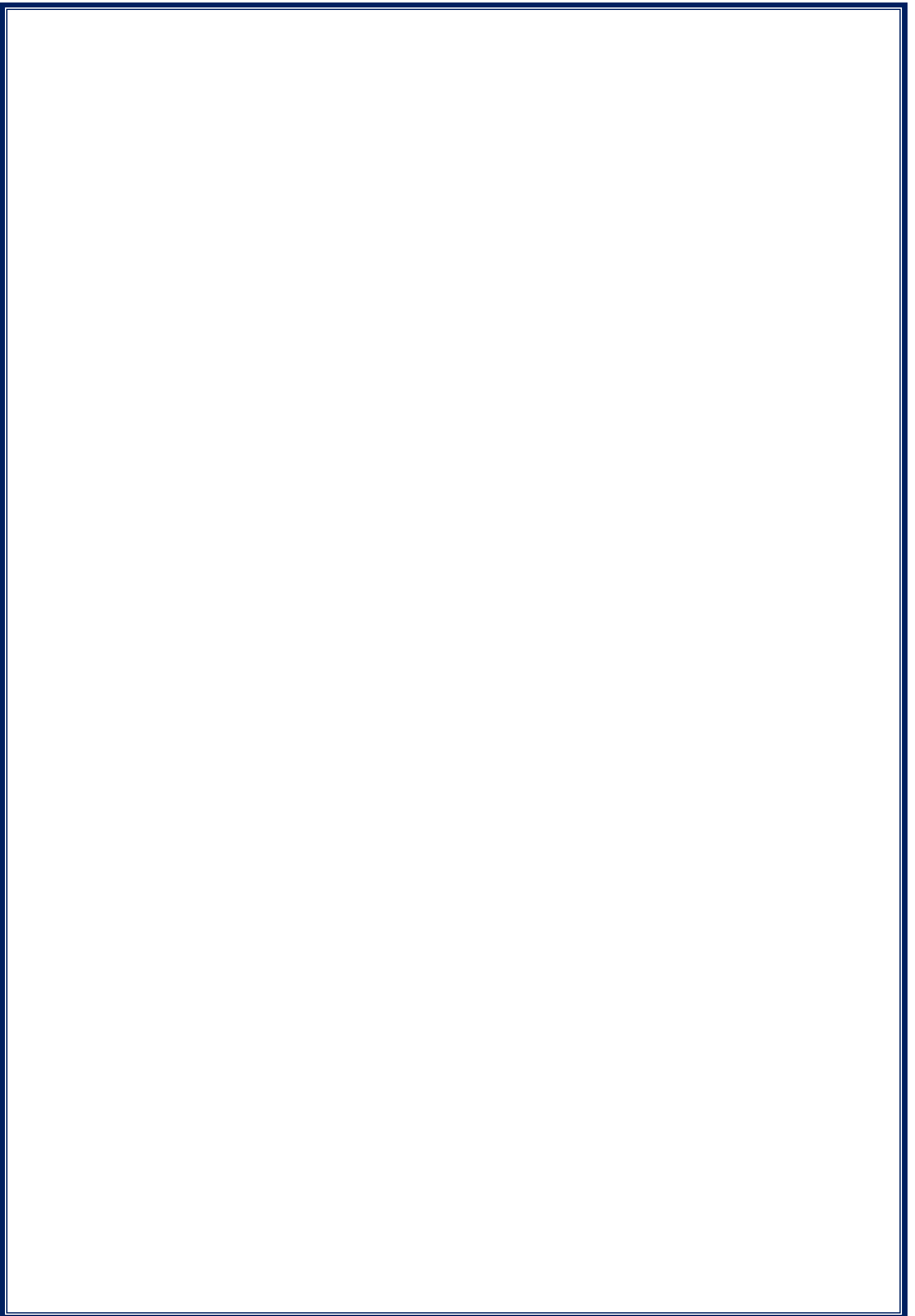




# ARK Franklin Primary Academy



Mathematics Curriculum



# Mathematics Overview

	Autumn Term		Spring Term		Summer Term	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	<p>Numbers to 10</p> <p>Addition and subtraction within 10</p>	<p>Shapes and patterns</p> <p>Numbers to 20</p> <p>Addition and subtraction within 20</p>	<p>Time</p> <p>Calculation strategies within 20</p> <p>Numbers to 50</p>	<p>Adding and subtracting within 50</p> <p>Fractions</p> <p>Measures: Length and weight</p>	<p>Numbers from 50 to 100 and beyond</p> <p>Addition and subtraction within 100</p> <p>Money</p>	<p>Multiplication and division</p> <p>Measures: Capacity and volume</p>
Year 2	<p>Number within 100</p> <p>Add and subtract 2-digit numbers</p> <p>Addition and subtraction word problems</p>	<p>Measures: Length</p> <p>Graphs</p> <p>Multiplication and division</p>	<p>Time</p> <p>Exploring calculation strategies</p> <p>Money</p>	<p>Face, shapes and patterns; lines and turns</p> <p>Fractions</p>	<p>Number within 1000</p> <p>Add and subtract 2- and 3-digit numbers</p> <p>Measures: Capacity and volume</p>	<p>Measure: Mass</p> <p>Multiplication and division 3x 4x</p>
Year 3	<p>Number sense and reasoning within 100</p> <p>Place value</p> <p>Graphs</p>	<p>Addition and subtraction with up to three digits</p> <p>Length and perimeter</p>	<p>Multiplication and division word problems</p> <p>Using 10s and 100s to multiply and divide large numbers</p>	<p>Time: Analogue, digital and measuring time</p> <p>Fractions</p>	<p>Angles and shapes</p> <p>Length, weight and volume</p>	<p>6 and 8 times tables</p> <p>Exploring calculation strategies and place value</p>
Year 4	<p>Reasoning with four-digit numbers</p> <p>Addition and subtraction</p>	<p>Multiplication and division</p> <p>Discrete and continuous data</p>	<p>Securing multiplication facts</p> <p>Fractions</p> <p>Time</p>	<p>Decimals</p> <p>Area and perimeter</p>	<p>Solving measure and money problems</p> <p>Shape and symmetry</p>	<p>Position and direction</p> <p>Reasoning with patterns and sequences</p> <p>3D Shape</p>
Year 5	<p>Reasoning with large whole integers</p> <p>Addition and subtraction</p> <p>Multiplication and Division</p>	<p>Perimeter and Area</p> <p>Angles</p> <p>Fractions and Decimals</p>	<p>Line Graphs and Timetables</p> <p>Fractions and Percentages</p>	<p>Transformations</p> <p>Converting units of measure</p>	<p>Calculating with whole numbers and decimals</p> <p>2D and 3D shape</p>	<p>Volume</p> <p>Problem Solving</p>
Year 6	<p>Arithmetic: Four operations</p> <p>Number and Place value to ten millions</p>	<p>Fractions</p> <p>Decimals</p> <p>Percentages</p>	<p>Measurement</p> <p>Statistics</p> <p>Properties of Shapes</p>	<p>Ratio and Proportion</p> <p>Algebra</p> <p>SATs Revision</p>	<p>SATs Revision</p>	<p>Multicultural multiplication</p> <p>Surveys and investigations</p>

# Arithmetic Overview

	Addition	Subtraction	Multiplication	Division	Fractions	Percentages
Year 1	<ul style="list-style-type: none"> <li>a) Count forwards across 100 from any given number</li> <li>b) Add one digit and two digit numbers to 20</li> </ul>	<ul style="list-style-type: none"> <li>a) Count backwards across 100 from any given number</li> <li>Subtract one digit and two digit numbers to 20</li> </ul>			<ul style="list-style-type: none"> <li>a) Find half of a quantity</li> <li>Find quarter of a quantity</li> </ul>	
Year 2	<ul style="list-style-type: none"> <li>a) Count forwards in steps of 2,3,5 from 0</li> <li>b) Count forwards in tens from any number</li> <li>c) Add a two-digit and one-digit number mentally (up to 100)</li> <li>d) Add a two-digit and tens mentally (up to 100)</li> <li>e) Add two two-digit numbers mentally (up to 100)</li> <li>f) Add three one-digit numbers mentally (up to 100)</li> </ul>	<ul style="list-style-type: none"> <li>a) Count backwards in tens from any number</li> <li>b) Subtract a two-digit and one-digit number mentally (up to 100)</li> <li>c) Subtract a two-digit and tens mentally (up to 100)</li> <li>d) Subtract two two-digit numbers mentally (up to 100)</li> </ul>	<ul style="list-style-type: none"> <li>a) Use multiplication facts for the 2, 5 and 10 multiplication tables</li> </ul>	<ul style="list-style-type: none"> <li>Use division facts for the 2, 5 and 10 multiplication tables</li> </ul>	<ul style="list-style-type: none"> <li>a) Find one third of a quantity</li> <li>b) Find two quarters of a quantity</li> <li>Find three quarters of a quantity</li> </ul>	
Year 3	<ul style="list-style-type: none"> <li>a) Add multiples of 10 or 100 to a number (up to 999)</li> <li>b) Add numbers up to 3 digits using formal method of column addition</li> </ul>	<ul style="list-style-type: none"> <li>a) Subtract multiples of 10 or 100 from a number (up to 999)</li> <li>Subtract numbers up to 3 digits using formal method of column subtraction</li> </ul>	<ul style="list-style-type: none"> <li>a) Multiply a two digit by a one digit using mental methods and progressing to formal written methods (2, 3, 4, 5 and 8)</li> <li>b) Multiply a whole number by 10</li> <li>c) Multiply more than two numbers together (2, 3, 5, 5 and 8)</li> </ul>	<ul style="list-style-type: none"> <li>a) Use known multiplication facts to create associated division facts</li> <li>b) Divide one or two digit numbers by 10</li> </ul>	<ul style="list-style-type: none"> <li>a) Add and subtract fractions with the same denominator within one whole</li> <li>Find fractions of quantities (up to 100) where the denominator is 2, 3, 4, 5, 8 or 10.</li> </ul>	
Year 4	<ul style="list-style-type: none"> <li>a) Add multiples of 10, 100 and 1,000 to a number (up to 9,999)</li> <li>b) Add numbers up to 4 digits using formal method of column addition</li> <li>c) Add with decimals (up to tenths and hundredths)</li> </ul>	<ul style="list-style-type: none"> <li>a) Subtract multiples of 10, 100 and 1,000 from a number (up to 9,999)</li> <li>b) Subtract numbers up to 4 digits using formal method of column subtraction</li> <li>Subtract with decimals (up to tenths and hundredths)</li> </ul>	<ul style="list-style-type: none"> <li>a) Multiply 2 and 3 digit numbers by a 1-digit number using a formal written method</li> <li>b) Multiply a whole number by 100</li> <li>c) Multiply more than two numbers together</li> </ul>	<ul style="list-style-type: none"> <li>a) Use known multiplication facts to create associated division facts</li> <li>b) Divide one or two digit numbers by 100</li> <li>Divide multiples of 10, 100 and 1,000 by a single digit number using associated division facts</li> </ul>	<ul style="list-style-type: none"> <li>a) Add and Subtract fractions where the answer may be an improper fraction</li> <li>Find fractions of quantities using known multiplication facts</li> </ul>	

# Arithmetic Overview

	Addition	Subtraction	Multiplication	Division	Fractions	Percentages
Year 5	<p>a) Add multiples of 10, 100, 1,000, 10,000 and 100,000 to a number (up to 999,999)</p> <p>b) Add numbers with more than 4 digits using formal method of column addition</p> <p>c) Add decimals (where two numbers have a different number of decimal places eg <math>14.7 + 8.65</math>)</p> <p>d) Apply knowledge of partitioning with numbers up to 1,000,000</p>	<p>a) Subtract multiples of 10, 100, 1,000, 10,000 and 100,000 from a number (up to 999,999)</p> <p>b) Subtract numbers with more than 4 digits using formal method of column subtraction</p> <p>Subtract decimals (where two numbers have a different number of decimal places eg <math>14.7 - 8.65</math>)</p>	<p>a) Multiply a 3-digit number by a 2-digit number using formal method of long multiplication</p> <p>b) Multiply whole numbers by 10, 100 and 1,000 (where the answer is no greater than 999,999)</p> <p>c) Multiply decimal numbers by 10, 100 and 1,000 where the quotient may be a decimal</p> <p>d) Recognise and use square and cube numbers</p> <p>e) Multiply multiples of 10 by 10, 100 or 1,000 (e.g. <math>30 \times 400</math>)</p>	<p>a) Divide numbers up to 4 digits by a 1-digit number using the formal written method of long division (recording with a remainder where required)</p> <p>b) Divide whole numbers by 10, 100 and 1,000 (where the quotient contains a decimal and the dividend may contain a decimal)</p>	<p>a) Add fractions with the same denominators and convert the answer from improper fractions to mixed numbers</p> <p>b) Add and subtract fractions where there are different denominators and one fraction is a multiple of the other (and one fraction may be a mixed number)</p> <p>c) Multiply proper fractions and mixed numbers by whole numbers</p> <p>d) Find fractions of quantities using formal calculation strategies</p>	<p>a) Find 10% of a number</p> <p>b) Find a multiple of 10% of a number</p> <p>c) Find 5% of a number</p>
Year 6	<p>a) Add multiples of 10, 100, 1,000, 10,000, 100,000 and 1,000,000 to a number (up to 9,999,999)</p> <p>b) Add and subtract using negative numbers through zero</p> <p>c) Use BIDMAS to identify the correct order of operations</p>	<p>Subtract multiples of 10, 100, 1,000, 10,000, 100,000 and 1,000,000 from a number up to 9,999,999)</p>	<p>a) Multiply a 4-digit number by a 2-digit number using the formal method of multiplication</p> <p>b) Multiply one digit numbers with up to two decimal places by whole numbers</p> <p>c) Multiply a tenths number that is less than one by a multiple of 10 or 100 (e.g. <math>0.4 \times 60</math>)</p> <p>d) Multiply a number with decimals by a two digit number using the formal method of long multiplication (e.g. <math>5.1 \times 28</math>)</p>	<p>a) Divide numbers up to 4 digits by a 2-digit number using the formal written method of long division (where the dividend may include a fraction)</p> <p>b) Divide numbers up to 4 digits by a 1-digit number using the formal written method of short division (where the dividend may include a fraction)</p>	<p>a) Add and subtract fractions with different denominators (using two or three fractions)</p> <p>b) Add and subtract a mixed number to a fraction where there are different denominators</p> <p>c) Multiply pairs of proper fractions writing the answer in its simplest form Divide proper fractions by whole numbers</p>	<p>a) Find a multiple of 5% of a number</p> <p>b) Find 1% of a number Find a multiple of 1% of a number</p>









# KPI Task Completion Schedule

	Autumn Term		Spring Term		Summer Term	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1		1(Aut), 2(Aut), 3(Aut)	4, 11, 12	1(Spr), 2(Spr), 3(Spr), 5	6, 7, 9, 10	1(Sum), 2(Sum), 3(Sum), 8
Year 2	1, 2	3, 4, 5, 18	6, 8, 9, 12	13, 14, 15	7, 10, 16, 17	11
Year 3	1, 2	3, 4	5, 13	7, 12	8, 10, 14	11, 6, 9

# KPI Task Completion Schedule









	Autumn Term		Spring Term		Summer Term	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 4	2, 3	5	6, 7, 17	8, 11, 12	1, 9, 10, 14	4, 13, 15, 16
Year 5	1, 2	17, 6, 7	14, 15, 12	10, 9, 16	8, 11, 13	3, 5, 4
Year 6	1, 2, 3, 4, 5, 20	6, 7, 9, 13, 18, 19	8, 12, 14, 15	10, 11, 16, 17		

# KPI Coverage: Year 1









Number and Place value	Addition and subtraction	Multiplication and division	Fractions	Measurement	Properties of Shape	Position and Direction	Statistics
							
<p>Counts to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.</p> <p>Counts, reads and writes numbers to 100 in numerals; counts in multiples of twos, fives and tens.</p> <p>Given a number, identifies one more and one less</p>	<p>Represents and uses number bonds and related subtraction facts within 20.</p>		<p>Recognises, finds and names a half as one of two equal parts of an object, shape or quantity</p>	<p>Compares, describes and solves practical problems for lengths and heights [for example, long/short, longer/shorter, tall/short, double/half];</p> <p>Compares, describes and solves practical problems for mass/weight [for example, heavy/light, heavier than, lighter than];</p> <p>Compares, describes and solves practical problems for capacity and volume [for example, full/empty, more than, less than, half, half full, quarter];</p> <p>Compares, describes and solves practical problems for time [for example, quicker, slower, earlier, later].</p> <p>Tells the time to the hour and half past the hour and draws the hands on a clock face to show these times.</p>	<p>Recognises and names common 2-D and 3-D shapes, including 2-D shapes [for example, rectangles (including squares), circles and triangles];</p> <p>Recognises and names common 2-D and 3-D shapes, including 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]</p>		









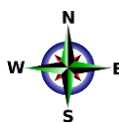

# KPI Coverage: Year 2

Number and Place value	Addition and subtraction	Multiplication and division	Fractions	Measurement	Properties of Shape	Position and Direction	Statistics
							
<p>Counts in steps of two, three, and five from 0, and in tens from any number, forward and backward</p> <p>Partition two digit numbers into different combinations of tens and ones</p> <p>Compares and orders numbers from 0 up to 100 and can use <math>&lt;</math> <math>&gt;</math> and <math>=</math> correctly.</p> <p>Uses place value and number facts to solve problems</p>	<p>Solves problems with addition and subtraction by using concrete objects and pictorial representations, including those involving numbers, quantities and measures</p> <p>Solves problems with addition and subtraction by applying an increasing knowledge of mental and written methods.</p> <p>Can check answers are reasonable by using inverse operations and estimation</p>	<p>Recalls and uses multiplication and division facts for the two, five and 10 multiplication tables, including recognising odd and even numbers</p> <p>Solves problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts</p>	<p>Recognises, finds, names and writes fractions <math>\frac{1}{3}</math>, <math>\frac{1}{4}</math>, <math>\frac{2}{4}</math>, <math>\frac{1}{2}</math> and <math>\frac{3}{4}</math> of a length, shape, set of objects or quantity</p>	<p>Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (<math>^{\circ}</math>C); capacity (litres/ml) to the nearest appropriate unit</p> <p>Read scales in divisions of ones, twos, fives and tens in a practical situation where all numbers on the scale are given</p> <p>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</p> <p>Use different coins to make the same amount</p> <p>Solves simple problems in a practical context involving addition and subtraction of money of the same unit including giving change</p>	<p>Compares and sorts common 2-D and 3-D shapes and everyday objects using knowledge of their properties</p>	<p>Use mathematical vocabulary to describe position, direction and movement including movement in a straight line, and distinguishes between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)</p>	<p>Asks and answers questions about totalling and comparing categorical data</p>









# KPI Coverage: Year 3

Number and Place value	Addition and subtraction	Multiplication and division	Fractions	Measurement	Properties of Shape	Position and Direction	Statistics
							
<p>Can find 10 or 100 more or less than a given number</p> <p>Recognises the place value of each digit in a three-digit number (hundreds, tens, and ones)</p> <p>Solves number problems and practical problems involving these ideas</p> <p>Read and write numbers up to 1000 in numerals and words</p>	<p>Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction</p>	<p>Recalls and uses multiplication and division facts for the multiplication tables three, four and eight</p> <p>Calculates using the multiplication tables that are known including for two-digit numbers times one digit numbers using mental and progressing to formal written methods</p>	<p>Counts up and down in tenths; recognises that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10</p> <p>Recognises, finds and writes fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators</p> <p>Recognises and shows, using diagrams, equivalent fractions with small denominators</p>	<p>Measures, compares, adds and subtracts lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)</p> <p>Tells and writes the time from an analogue clock and 12-hour and 24-hour clocks</p> <p>Measure the perimeter of simple 2-D shapes</p>	<p>Identifies right angles, recognises that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identifies whether angles are greater than or less than a right angle</p>		<p>Interprets and presents data using bar charts, pictograms and tables</p>









# KPI Coverage: Year 4

Number and Place value	Addition and subtraction	Multiplication and division	Fractions	Measurement	Properties of Shape	Position and Direction	Statistics
							
<p>Counts backwards through zero to include negative numbers</p> <p>Orders and compares numbers beyond 1,000</p> <p>Rounds any number to the nearest 10, 100 or 1,000</p> <p>Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.</p>	<p>Solves addition and subtraction two-step problems in context, deciding which operations and methods to use and why</p>	<p>Recalls multiplication and division facts for multiplication tables up to 12 x 12</p> <p>Multiply two-digit and three-digit numbers by a one-digit number using formal written layout</p>	<p>Recognises and shows, using diagrams, families of common equivalent fractions</p> <p>Counts up and down in hundredths; recognises that hundredths arise when dividing an object by 100 and dividing tenths by 10</p> <p>Rounds decimals with one decimal place to the nearest whole number</p> <p>Solves simple measure and money problems involving fractions and decimals to two decimal places</p> <p>Compares and orders numbers with the same number of decimal places up to 2 decimal places.</p>	<p>Converts between different units of measure eg kilometre to metre; hour to minute</p>	<p>Compares and classifies geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</p> <p>Complete a simple symmetric figure with respect to a specific line of symmetry.</p>	<p>Plots specified points and draws sides to complete a given polygon</p>	<p>Solves comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs</p>

# KPI Coverage: Year 5

Number and Place value	Addition and subtraction	Multiplication and division	Fractions	Measurement	Properties of Shape	Position and Direction	Statistics
							
<p>Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000</p>	<p>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</p>	<p>Identifies multiples and factors including finding all factor pairs of a number and common factors of two numbers</p> <p>Solves problems involving multiplication and division</p> <p>Apply knowledge factors and multiples, squares, cubes and primes.</p> <p>Long multiplication for three digit numbers by two digit numbers</p> <p>Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context</p>	<p>Compares and orders fractions whose denominators are all multiples of the same number</p> <p>Reads and writes decimal numbers as fractions eg <math>0.71 = 71/100</math></p> <p>Order and compare numbers with up to three decimal places</p> <p>Solves problems which require knowing percentage and decimal equivalents of <math>1/2, 1/4, 1/5, 2/5, 4/5</math> and those fractions with a denominator of a multiple of 10 or 25</p> <p>Convert and compare (where the denominator is the same) between mixed and improper fractions and compare</p>	<p>Converts between different units of metric measure (eg kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)</p> <p>Measures and calculates the perimeter of composite rectilinear shapes in centimetres and metres</p> <p>Calculates and compares the area of rectangles (including squares), and including using standard units, square centimetres (<math>\text{cm}^2</math>) and square metres (<math>\text{m}^2</math>)</p>	<p>Identify: (i) angles at a point and one whole turn (total <math>360^\circ</math>) (ii) angles at a point on a straight line and half a turn (total <math>180^\circ</math>) (iii) other multiples of <math>90^\circ</math></p>		<p>Completes, reads and interprets information in tables, including timetables</p>

# KPI Coverage: Year 6

Number and Place value	Addition and subtraction	Multiplication and division	Fractions	Measurement	Properties of Shape	Position and Direction	Statistics
							
<p>Demonstrate an understanding of place value including rounding to a required degree of accuracy and identifying the value of specified digits</p> <p>Uses negative numbers in context and calculates intervals across zero</p>	<p>Solve problems involving addition, subtraction, multiplication and division</p>	<p>Multiplies multi-digit numbers up to four digits by a two digit whole number using the formal written method of long multiplication</p> <p>Divides numbers up to four digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context</p> <p>Use their knowledge of the order of operations to carry out calculations involving the four operations</p>	<p>Calculate using fractions</p> <p>Solve problems involving percentages and fractions of amounts in context (including inverse and measures)</p> <p>Solves problems which require answers to be rounded to specified degrees of accuracy</p> <p>Recalls and uses equivalences between simple fractions, decimals and percentages, including in different contexts</p>	<p>Uses, reads, writes and converts between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places</p> <p>Calculate the area of parallelograms and triangles</p>	<p>Compares and classifies geometric shapes based on their properties and sizes and finds unknown angles in any triangles, quadrilaterals and regular polygons</p> <p>Draw 2-D shapes using given dimensions and angles</p> <p>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</p>	<p>Draws and translates simple shapes on the coordinate plane and reflects them in the axes</p>	<p>Interprets pie charts and line graphs and uses these to solve problems</p> <p>Calculates and interprets the mean as an average</p>



# Y1 Maths KPIs



	Target	KPI Tasks (score / 5)		
		Autumn	Spring	Summer
1	I can count up to and over 100 and back again			
2	I can count, read and write numbers to 100. I can also skip count in two, fives and tens			
3	I can find out what is one more or one less than a number			
4	I can use my number bonds and subtract with numbers less than 20			
5	I can find halves using objects, shapes and numbers			
6	I can solve problems that involve measuring length and height			
7	I can solve problems that involve measuring weight			
8	I can solve problems that involve measuring capacity and volume			
9	I can solve problems that involve time			
10	I can tell the time to the hour and half hour and draw the hands on a clock face to show this			
11	I can identify 2-D shapes and name them			
12	I can identify 3-D shapes and name them			



# Y2 Maths KPIs



	Target	KPI Tasks (score / 5)
1	I can skip count in steps of two, three and five from zero. I can also skip count in tens from any number backwards and forwards.	
2	I can partition numbers into tens and ones in different ways	
3	I can put numbers in order from smallest to largest using the correct symbols (<, >, =). I can also compare numbers.	
4	I can use what I know about place value and number to solve problems	
5	I can solve addition and subtraction problems that involve numbers and measures. I can use Dienes and other objects to help	
6	When solving addition and subtraction problems, I can use different strategies to help me	
7	I can check my answers by estimating and using the inverse operation	
8	I know my two, five and ten times tables. I also know the division facts linked to them. I also know my odd and even numbers	
9	I can solve multiplication and division problems using different strategies and resources to help me (arrays, counters...)	
10	I can find: $\frac{1}{3}$ , $\frac{1}{4}$ , $\frac{2}{4}$ , $\frac{1}{2}$ and $\frac{3}{4}$ of a length, shape or number	
11	I can estimate and measure length, height, mass, temperature, capacity and length. I use the correct units when recording.	
12	I am able to read scales when all the numbers on the scale are given	
13	I can tell the time to the nearest five minutes as well as quarter past and quarter to. I can draw hands on a clock face to show this.	
14	I can use different coins to make the same amount of money	
15	Solves simple problems in a practical context involving addition and subtraction of money of the same unit including giving change	
16	Compares and sorts common 2D and 3D shapes and everyday objects using knowledge of their properties	
17	Use mathematical vocabulary to describe position, direction and movement including movement in a straight line, and distinguishes between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)	
18	Asks and answers questions about totalling and comparing categorical data	



# Y3 Maths KPIs



	Target	KPI Tasks (score / 5)
1	I can find 10/100 more or less than a number	
2	I know the place value facts of a number (hundreds, tens and ones)	
3	I can use my number and place value skills to solve problems	
4	I can read and write numbers up to 1000 using digits and words	
5	I can add and subtract with numbers up to 1000 using the column method	
6	I know my three, four and eight times tables and the division facts that are linked to them	
7	I can multiply a two digit number by a one number using the times tables facts that I know.	
8	I know what tenths are and count up and down in tenths	
9	I can find the fraction of an amount of objects. I can do this with unit fractions and non-unit fractions	
10	I can show my understanding of equivalent fractions using diagrams	
11	I can measure, compare, add/subtract length, mass, volume and capacity. I use the correct unit of measurement when recording	
12	I can tell and write the time using an analogue clock. I can also read the time using 24 hour clock.	
13	I can measure the perimeter of 2-D shapes	
14	I can make the connection between right angles and turns. I can also say whether angles are greater/less than right angles.	





# Y4 Maths KPIs



	Target	KPI Tasks (score / 5)
1	I can count backwards through zero into negative numbers	
2	I can put numbers greater than 1,000 in order. I can also compare numbers using the symbols $<$ , $>$ and $=$ .	
3	I can round numbers to the nearest 10, 100 or 1,000	
4	I can read Roman Numerals to 100	
5	I can solve real life addition and subtraction problems	
6	I know all of my times tables up to $12 \times 12$ and the division facts linked to them	
7	I can multiply a two or three digit number by a one digit number	
8	I can use diagrams to show my understanding of equivalent fractions	
9	I know what hundredths are and count up and down in hundredths	
10	I can round decimals to the nearest whole number	
11	I can solve measurement and money problems that also involve my knowledge of decimals and fractions	
12	I can compare and order numbers that have the same number of decimal places	
13	I can convert between different units of measurement	
14	I can compare different 2-D shapes using mathematical language	
15	Using my knowledge of symmetry, I can complete a symmetric figure	
16	I can plot specified points and then draw sides to complete a given polygon	
17	When looking at bar charts, pictograms, tables and other graphs, I can answer questions requiring me to compare the data	



# Y5 Maths KPIs



	Target	KPI Tasks (score / 5)
1	I can round extremely large numbers to the nearest 10, 100, 1,000, 10,000 and 100,000	
2	I can solve real life problems requiring me to add and subtract	
3	I can use my knowledge of factors and multiples. I can find all pairs of factors as well as common factors of two numbers	
4	I can solve real life problems that involve multiplication and division	
5	I can identify square, cube and prime numbers	
6	I can multiply a three digit number by a two digit number using long multiplication	
7	I can divide up to a four digit number by a one digit number using short division. I can present remainders in the appropriate way	
8	I can order and compare fractions where denominators	
9	I can read and write decimals as fractions	
10	I can order and compare numbers which have up to three decimal places	
11	I can solve problems using my knowledge of percentage and decimal equivalents and sometimes, fraction equivalents	
12	I can convert and compare between mixed numbers and improper fractions	
13	I can convert between different units of measurement	
14	I can measure and calculate the perimeter of different shapes whose edges all meet at right angles	
15	I can calculate the area of rectangles and record using the correct units of measurement	
16	I can find angles on a point, angles on a straight line and angles that are multiples of 90°	
17	I can create, read and interpret data in different formats including timetables	



# Y6 Maths KPIs



	Target	KPI Tasks (score / 5)
1	I am able to use my place value knowledge with numbers of all sizes and can round to any specific requirement	
2	I count backwards and forwards across zero and can solve real life problems involving negative numbers	
3	I can solve problems using my addition, subtraction, multiplication and division skills	
4	I can multiply numbers up to four digits by a two digit number using long multiplication	
5	I can divide numbers up to four digits by a two digit number using short division. I can also present remainders appropriately	
6	I can use my knowledge of BIDMAS to carry out calculations using all four operations	
7	I can calculate using fractions	
8	I can solve problems using percentages and fractions of amounts	
9	I can solve problems which require me to round the answer to a specific degree of accuracy	
10	I can identify equivalent fractions, decimals and percentages and can use this knowledge when solving problems	
11	Using my knowledge of fractions and decimals, I can solve problems that involve remainders and ratio	
12	I can use solve problems that involve the use of algebra	
13	I can convert between smaller and larger units of measurement using all numbers including decimals up to three decimal places	
14	I can calculate the area of triangles and parallelograms	
15	I can compare and classify 2-D shapes. I can also find unknown angles in 2-D shapes without using a protractor.	
16	I can draw 2-D shapes using given information (dimensions and angles)	
17	I can identify angles on a point, on a straight line, when they are vertically opposite and also find missing angles	
18	I can draw and translate simple shapes and reflect them in the axes	
19	I can answer questions and solve problems involving pie charts and line graphs	
20	I can calculate the mean average and solve problems involving the mean	