

Autumn Term						
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
	Block 1: Place Value		Block 2: Addition, subtraction, multiplication and division			
Small Steps	<ul style="list-style-type: none"> •Numbers to 1,000,000 •Numbers to 10,000,000 •Exploring numbers to 10,000,000 •Read and write numbers to 10,000,000 •Powers of ten 	<ul style="list-style-type: none"> •Number lines to 10,000,000 •Compare and order any integers •Round any integer •Negative numbers 	<ul style="list-style-type: none"> •Add and subtract integers •Solve problems with addition and subtraction •Find common factors •Find common multiples •Recognise rules of divisibility 	<ul style="list-style-type: none"> •Identify prime numbers to 100 •Explore square and cube numbers •Multiply by a 1-digit number •Multiply up to a 4-digit number by a 2-digit number •Solve problems with multiplication 	<ul style="list-style-type: none"> •Divide using short division •Divide with remainders •Divide using factors •Divide using long division •Divide using long division with remainders 	<ul style="list-style-type: none"> •Solve division problems •Solve multi-step problems •Know the order of operations
National Curriculum	<ul style="list-style-type: none"> •Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit •Round any whole number to a required degree of accuracy •Use negative numbers in context, and calculate intervals across zero •Solve number and practical problems that involve the above 		<ul style="list-style-type: none"> •Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication •Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context •Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context •Perform mental calculations, including with mixed operations and large numbers •Identify common factors, common multiples and prime numbers •Use their knowledge of the order of operations to carry out calculations involving the four operations •Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why •Solve problems involving addition, subtraction, multiplication and division 			

Autumn Term						
	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	Block 2: Addition, subtraction, multiplication and division	Block 3: Fractions		Block 4: Fractions (calculations)		Block 5: Measurement - Converting units
Small Steps	<ul style="list-style-type: none"> ● Use mental calculations ● Use estimation ● Reason using known facts 	<ul style="list-style-type: none"> ● Identify equivalent fractions and simplify fractions ● Use number lines to find equivalent fractions ● Compare and order fractions by denominator ● Compare and order fractions by numerator ● Add and subtract simple fractions 	<ul style="list-style-type: none"> ● Add and subtract any two fractions ● Add mixed numbers ● Subtract mixed numbers ● Solve multi-step problems involving fractions 	<ul style="list-style-type: none"> ● Multiply fractions by integers ● Multiply fractions by fractions ● Divide a fraction by an integer ● Divide any fraction by an integer 	<ul style="list-style-type: none"> ● Solve mixed questions with fractions ● Find a fraction of an amount ● Find the whole 	<ul style="list-style-type: none"> ● Use metric measures ● Convert metric measures ● Calculate with metric measures ● Convert miles and kilometres ● Explore and convert imperial measures
National Curriculum	<ul style="list-style-type: none"> ● Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy ● Perform mental calculations, including with mixed operations and large numbers ● Solve problems involving addition, subtraction, multiplication and division 	<ul style="list-style-type: none"> ● Compare and order fractions, including fractions > 1 ● Use common factors to simplify fractions; use common multiples to express fractions in the same denomination ● Identify common factors, common multiples and prime numbers ● Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions ● Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why ● Solve problems involving addition, subtraction, multiplication and division 		<ul style="list-style-type: none"> ● Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions ● Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams (Y5) ● Multiply simple pairs of proper fractions, writing the answer in its simplest form ● Divide proper fractions by whole numbers ● Solve problems involving addition, subtraction, multiplication and division ● Associate a fraction with division and calculate decimal fraction equivalents 		<ul style="list-style-type: none"> ● Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate ● Use, read, write and convert 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 up to 3 decimal places

Spring Term						
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
	Block 1: Ratio		Block 2: Algebra		Block 3: Decimals	
Small Steps	<ul style="list-style-type: none"> • Explore relationships between numbers • Use ratio language • Understand and use the ratio symbol • Explore ratios and fractions • Solve problems with scale drawings 	<ul style="list-style-type: none"> • Use scale factors • Solve problems with similar shapes • Solve ratio problems • Solve proportion problems • Solve recipe problems 	<ul style="list-style-type: none"> • Explore one-step function machines • Explore two-step function machines • Form expressions • Use substitution • Use formulae 	<ul style="list-style-type: none"> • Form equations • Solve one-step equations • Solve two-step equations • Find pairs of values • Solve problems with two unknowns 	<ul style="list-style-type: none"> • Explore decimals within 1 • Explore decimals greater than 1 • Round decimals • Add and subtract decimals • Multiply by 10, 100 and 1000 	<ul style="list-style-type: none"> • Divide by 10, 100 and 1000 • Multiply decimals by integers • Divide decimals by integers • Multiply and divide decimals in context
National Curriculum	<ul style="list-style-type: none"> • Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts • Solve problems involving similar shapes where the scale factor is known or can be found • Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. 		<ul style="list-style-type: none"> • Use simple formulae • Generate and describe linear number sequences • Express missing number problems algebraically • Find pairs of numbers that satisfy an equation with two unknowns • Enumerate possibilities of combinations of two variables. 		<ul style="list-style-type: none"> • Identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places • Multiply 1-digit numbers with up to 2 decimal places by whole numbers • Use written division methods in cases where the answer has up to 2 decimal places • Solve problems which require answers to be rounded to specified degrees of accuracy • Solve problems involving addition, subtraction, multiplication and division • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why 	

Spring Term						
	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	Block 4: Fractions, decimals and percentages		Block 5: Area, perimeter and volume		Block 6: Statistics	
Small Steps	<ul style="list-style-type: none"> ● Find equivalent decimals and fractions ● Explore fractions as division ● Understand percentages ● Convert fractions to percentages ● Find equivalent fractions, decimals and percentages 	<ul style="list-style-type: none"> ● Order fractions, decimals and percentages ● Find a percentage of an amount (one step) ● Find a percentage of an amount (multi-step) ● Find a whole number from a percentage 	<ul style="list-style-type: none"> ● Identify shapes with the same area ● Find the area and the perimeter ● Find the area of a triangle by counting squares ● Find the area of a right-angled triangle ● Find the area of any triangle 	<ul style="list-style-type: none"> ● Find the area of a parallelogram ● Calculate volume by counting cubes ● Calculate the volume of a cuboid 	<ul style="list-style-type: none"> ● Interpret line graphs ● Draw line graphs ● Interpret dual bar charts ● Draw dual bar charts ● Read and interpret pie charts 	<ul style="list-style-type: none"> ● Interpret pie charts with percentages ● Draw pie charts ● Calculate and interpret the mean
National Curriculum	<ul style="list-style-type: none"> ● Use common factors to simplify fractions; use common multiples to express fractions in the same denomination ● Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction ● Compare and order fractions, including fractions >1 ● Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts ● Solve problems involving the calculation of percentages and the use of percentages for comparison 		<ul style="list-style-type: none"> ● Recognise that shapes with the same areas can have different perimeters and vice versa ● Recognise when it is possible to use formulae for area and volume of shapes ● Calculate the area of parallelograms and triangles ● Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units ● Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate 		<ul style="list-style-type: none"> ● Interpret and construct pie charts and line graphs and use these to solve problems ● Calculate and interpret the mean as an average 	

Summer Term						
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
	Block 1: Shape			Block 2: Geometry - Position and direction	Block 3: Consolidation and revision	
Small Steps	<ul style="list-style-type: none"> •Classify angles •Measure angles •Calculate angles •Investigate vertically opposite angles 	<ul style="list-style-type: none"> •Measure and calculate angles in a triangle •Find missing angles in different types of triangles •Find missing angles •Explore angles in quadrilaterals •Explore angles in polygons 	<ul style="list-style-type: none"> •Identify and calculate parts of a circle •Draw 2-D shapes accurately •Explore nets of 3-D shapes 	<ul style="list-style-type: none"> •Read and plot coordinates in the first quadrant •Read and plot coordinates in four quadrants •Solve problems with coordinates •Explore translations •Explore reflections 	Consolidation and revision of previous small steps based on identified gaps in knowledge and the needs of the pupils.	
National Curriculum	<ul style="list-style-type: none"> •Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles •Draw given angles, and measure them in degrees ($^{\circ}$) (Y5) •Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles (Y5) •Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons •Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius •Draw 2-D shapes using given dimensions and angles •Recognise, describe and build simple 3-D shapes, including making nets 			<ul style="list-style-type: none"> •Describe positions on the full coordinate grid (all four quadrants) •Draw and translate simple shapes on the coordinate plane, and reflect them in the axes 	Dependent on the focus objectives selected for this block.	

Summer Term							
	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
	Block 4: Problem solving		Block 5: Maths projects			Block 6: KS3 Transition	
Small Steps	<ul style="list-style-type: none"> • Find and create unique pentominoes • Describe and extend a number pattern • Solve problems using factor, multiples, prime numbers and rounding • Use inverse operations to find missing values • Find all the possibilities 	<ul style="list-style-type: none"> • Make sequences • Subtract digits • Estimate and multiply • Divide to convert fractions • Use the order of operations <p><i>(All steps above involve using calculators)</i></p>	<p>In this block, children will complete a range of maths projects that further develop key mathematical skills and understanding.</p>				
National Curriculum	<ul style="list-style-type: none"> • Draw 2-D shapes using given dimensions and angles • Recognise, describe and build simple 3-D shapes, including making nets • Use simple formulae • Express missing number problems algebraically • Solve problems involving addition, subtraction, multiplication and division • Find pairs of numbers that satisfy an equation with two unknowns • Enumerate possibilities of combinations of two variables • Round any whole number to a required degree of accuracy; solve number problems and practical problems. • Identify common factors, common multiples and prime numbers. 	<ul style="list-style-type: none"> • Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction • Generate and describe linear number sequences • Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit • Identify the value of each digit in numbers given to three decimal places • Recall and use equivalences between simple fractions, decimals and percentages • Use their knowledge of the order of operations to carry out calculations involving the four operations 				<p>Transition work in preparation for Year 7.</p>	