

***These documents will be evaluated during their implementation throughout 2025 – 2026 and may be amended to remain in line with any updated national recommendations or changes to assessment.**

Documentation taken into consideration while deciding which steps to list as priority content

National Curriculum for Mathematics in England

DfE Mathematics Guidance – Ready to Progress Statements

NCETM Prioritisation Materials

Current Assessment Materials used by First4Maths Academy Schools

Maths Horizon Report – How England Should Reform Maths Education for the Age of AI?

Government Curriculum and Assessment Review

The National Curriculum states that, “The expectation is that the majority of pupils will move through the programmes of study at broadly the same pace. However, decisions about when to progress should always be based on the security of pupils’ understanding and their readiness to progress to the next stage. Pupils who grasp concepts rapidly should be challenged through being offered rich and sophisticated problems before any acceleration through new content. Those who are not sufficiently fluent with earlier material should consolidate their understanding, including through additional practice, before moving on.”

Year 6 – Mathematics Intent

Block	Topic	Term	Number of Weeks	Retrieval Focus
1	Number and Place Value		Estimated pre-SATs 4 weeks	
2	Addition and Subtraction		Estimated pre-SATs 3 weeks	
3	Multiplication and Division		Estimated pre-SATs 4 weeks	
4	Fractions		Estimated pre-SATs 4 weeks	
5	Decimals and Percentages		Estimated pre-SATs 4 weeks	
6	Ratio and Proportion		Estimated pre-SATs 2 weeks	
7	Algebra		Estimated pre-SATs 2 weeks	
8	Measure		Estimated pre-SATs 2 weeks	
9	Geometry – Shape, Position and Direction		Estimated pre-SATs 3 weeks	
10	Statistics		Estimated pre-SATs 1 week	
11	Number, Geometry and Substantial Problem Solving		Estimated – 9 weeks	

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Block 1			
Number and Place Value			
Substantive Knowledge National Curriculum	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview
Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit	<p>6NPV–1 Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000).</p> <p>6NPV–2 Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning.</p>	<ul style="list-style-type: none"> • Can explain the place value in numbers up to 10,000,000 • Can order a set of numbers to 10,000,000 • Understands how a number can be partitioned into different amounts • Can multiply and divide numbers by 10 and 1,000 and explain the effect on the size of the digits in the number 	<p>*Place value in numbers to ten million</p> <p>*Multiplying and dividing by powers of 10</p> <p>*Adding and subtracting powers of 10</p> <p>*Partitioning in non-standard ways</p> <p>*Partitioning using place value equivalence</p> <p>*Compare numbers</p> <p>*Order numbers</p>
Round any whole number to a required degree of accuracy	<p>6NPV–3 Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts.</p> <p>6NPV–4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.</p>	<ul style="list-style-type: none"> • Can round numbers to the nearest 1,000,000 • Can estimate the answers to calculations by rounding and comparing answers 	<p>*Positioning numbers on a blank number line</p> <p>*Positioning numbers on a scaled number line</p> <p>*Rounding numbers to a required degree of accuracy</p> <p>*Calculate intervals between negative and positive numbers</p>
Use negative numbers in context, and calculate intervals across zero		<ul style="list-style-type: none"> • Can solve problems involving negative numbers linked to temperature, money and measures <i>e.g. find the difference between two temperatures when one is negative.</i> 	<p>*Application to SATs questions embedded into each unit of work at the appropriate stage of an objective</p>
Solve number and practical problems that involve all of the above.		<ul style="list-style-type: none"> • Can solve problems involving place value, including word problems and problems linked to population of countries, money and measure 	

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Block 2			
Addition and Subtraction			
Substantive Knowledge	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview
National Curriculum			
Perform mental calculations, including with mixed operations and large numbers	<p>6AS/MD–1 Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number).</p> <p>6AS/MD–2 Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding.</p>	<ul style="list-style-type: none"> • Can mentally add and subtract numbers including decimals using a variety of strategies 	<p>*Recap 4.2.8 & 5.2.3 *Consolidate mental strategies for addition and subtraction, including with decimals</p> <p>*Use estimation to support calculation</p> <p>*Recap/consolidate written strategies for addition and subtraction, including with decimals</p> <p>*Multi Step Problems, including with decimals</p> <p>*Application to SATs questions embedded into each unit of work at the appropriate stage of an objective</p>
Use their knowledge of the order of operations to carry out calculations involving the four operations		<ul style="list-style-type: none"> • Can understand and use brackets • Can understand the order of operations, BODMAS 	
Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why		<ul style="list-style-type: none"> • Can use addition and/or subtraction strategies to solve a complex problem. • Solve problems including those with more than one step 	
Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy		<ul style="list-style-type: none"> • Can use rounding to estimate the answer • Can use estimating to consider whether their answer is appropriate • Can use the inverse to check the answer 	

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Block 3			
Multiplication and Division			
Substantive Knowledge	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview
National Curriculum			
Perform mental calculations, including with mixed operations and large numbers	<p>6AS/MD–1 Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number)</p> <p>6AS/MD–2 Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding.</p>	<ul style="list-style-type: none"> Can decide when to use a mental method, informal jottings or a written method for calculations with all four operations Can identify an appropriate strategy to solve a mental calculation e.g. calculate 24×15, they multiply 24×10 and then halve this to get 24×5, adding these two results together. Can approximate effectively using rounding Can derive facts involving decimals Can use knowledge of square numbers to derive square of multiples of 10 e.g. 60×60 	<ul style="list-style-type: none"> *Recapping multiplication *Common factors *Common multiples *Prime numbers *Square and cube numbers *Mental methods of multiplication and division *Estimating multiplication questions *Written methods of multiplication *Written methods of division *Order of operations *Solve multi-step problems using all four operations
Identify common factors, common multiples and prime numbers		<ul style="list-style-type: none"> Can identify common factors of 2-digit numbers Can identify common multiples of 2-digit numbers Can identify prime numbers to 100 and begin to recall these 	<ul style="list-style-type: none"> *Application to SATs questions embedded into each unit of work at the appropriate stage of an objective
Use their knowledge of the order of operations to carry out calculations involving the four operations		<ul style="list-style-type: none"> Can understand the order of BODMAS and use this to solve calculations 	
Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication		<ul style="list-style-type: none"> Can use mental strategies to approximate answers to multiplication and division calculations Can use an appropriate formal written method to multiply numbers up to ThHTO by TO 	

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<p>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</p>		<ul style="list-style-type: none"> • Can use an expanded written method to divide ThHTO by TO • Can use a standard written method of long division to divide ThHTO by TO • Can interpret remainders accurately 	
<p>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</p>		<ul style="list-style-type: none"> • Can use a standard written method of short division to divide ThHTO by O • Can use a standard written method of short division to divide ThHTO by TO • Can interpret remainders accurately 	
<p>Solve problems involving addition, subtraction, multiplication and division</p>		<ul style="list-style-type: none"> • Can use addition and/or subtraction strategies to solve a complex problem. • Solve problems including those with more than one step 	
<p>Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.</p>		<ul style="list-style-type: none"> • Can use rounding to estimate the answer • Can use estimating to consider whether their answer is appropriate • Can use the inverse to check the answer 	

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Block 4			
Fractions			
Substantive Knowledge National Curriculum	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview
Use common factors to simplify fractions; use common multiples to express fractions in the same denomination	6F–1 Recognise when fractions can be simplified, and use common factors to simplify fractions.	<ul style="list-style-type: none"> Understand equivalent fractions have common multiples Using diagrams can see fractions are the same when simplified. Can simplify fractions by dividing the numerator and denominator by a common factor. 	<ul style="list-style-type: none"> *Equivalent fractions *Simplifying fractions *Finding common denominators *Compare fractions, including fractions > 1 *Order fractions, including fractions > 1 *Add proper fractions *Subtract proper fractions *Add fractions and mixed numbers *Subtract fractions and mixed numbers *Multiplying pairs of proper fractions *Dividing proper fractions by whole numbers *Interpreting fractions as a remainder *Application to SATs questions embedded into each unit of work at the appropriate stage of an objective
Compare and order fractions, including fractions > 1	<p>6F–2 Express fractions in a common denomination and use this to compare fractions that are similar in value.</p> <p>6F–3 Compare fractions with different denominators, including fractions greater than 1, using reasoning, and choose between reasoning and common denomination as a comparison strategy</p>	<ul style="list-style-type: none"> Can convert fractions into common denominators Can use decimal equivalence to order and compare fractions. 	
Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions		<ul style="list-style-type: none"> Can use knowledge of equivalent fractions to add fractions Can convert mixed numbers into improper fractions. 	
Multiply simple pairs of proper fractions, writing the answer in its simplest form		<ul style="list-style-type: none"> Understand when multiplying by a fraction the answer will be smaller. Using diagrams can understand when multiplying fractions by a fraction the answer will be smaller. Can follow a standard method to multiply fractions. 	
Divide proper fractions by whole numbers		<ul style="list-style-type: none"> Can divide a proper fraction by a whole number Can explain how to divide a proper fraction, using diagrams if necessary to show understanding 	
Associate a fraction with division and calculate decimal fraction equivalents		<ul style="list-style-type: none"> Understand how to calculate a decimal from a fraction by dividing the numerator by the denominator. Can explore recurring equivalence of decimals and fractions. Can recall common fraction and decimal equivalents 	

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Block 5			
Decimals and Percentages			
Substantive Knowledge	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview
National Curriculum			
Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places	<p>6NPV–1 Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000).</p> <p>6NPV–2 Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning.</p> <p>6NPV–4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.</p>	<ul style="list-style-type: none"> Understands the effect of multiplying a decimal by 10, 100 and 1,000 Understands the effect of dividing a decimal by 10, 100 and 1,000 	<ul style="list-style-type: none"> * Place Value to 3 d.p. *Non-Standard partitioning of decimal numbers *Multiply and divide by 10/100/1,000 *Multiplying decimals by whole numbers *Written division with an answer to 2 decimal places *Representing remainders as decimals *Associate a fraction with division and calculate decimal fraction equivalents *Recall and use equivalences between simple fractions, decimals and percentages *Percentages of amounts *Solve problems involving percentages including application to measure
Multiply one-digit numbers with up to two decimal places by whole numbers		<ul style="list-style-type: none"> Can use an appropriate formal written method to multiply numbers up to 0.th by 0 Can use mental strategies to approximate answers to multiplication calculations Can say why an answer to a multiplication involving 2 decimal places cannot be correct <i>e.g. Sam says the answer to 2.34×4 is 93.6 Explain why he cannot be correct.</i> 	<ul style="list-style-type: none"> *Application to SATs questions embedded into each unit of work at the appropriate stage of an objective
Use written division methods in cases where the answer has up to two decimal places		<ul style="list-style-type: none"> Can use an appropriate formal method to divide a number with U.th by a single digit <i>e.g. in the context of money $\pounds 4.35 \div 3$</i> Can use an appropriate formal method to divide a whole number with a remainder by a single digit, extending their working into decimal places <i>e.g. $\pounds 178 \div 8$</i> Can interpret decimal answers in context <i>e.g. What does 5.6 represent if it is in the context of money? mass? length?</i> 	

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<p>Solve problems which require answers to be rounded to specified degrees of accuracy</p>	<p>6NPV–3 Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts.</p>	<ul style="list-style-type: none"> • Can choose and use appropriate methods of calculation using all four operations. • Can decide whether to round an answer to the nearest tenth, whole number or higher value place, in context <i>e.g.</i> <i>Approximately how many metres of fabric should I buy if I need to make 3 dresses which each use 1.34m?</i> • Can use rounding to estimate the answer • Can consider whether their answer is appropriate 	
<p>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts</p>	<p>6NPV–4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.</p>	<ul style="list-style-type: none"> • Can recognise simple fraction, decimal and percentage equivalences in context including $\frac{1}{2}$ $\frac{1}{4}$ $\frac{3}{4}$ $\frac{1}{10}$ $\frac{1}{5}$ = 0.5, = 0.25, = 0.75, = 0.1, = 0.2 • Can recognise other equivalent fractions, decimals and percentages with the same denominator <i>e.g.</i> If $\frac{1}{10} = 0.1$, $\frac{3}{10} = ?$ • Can explain why $\frac{6}{10}$ is more than 50% 	

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Block 6			
Ratio and Proportion			
Substantive Knowledge National Curriculum	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview
Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts	<p>6AS/MD–1 Understand that 2 numbers can be related additively or multiplicatively and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number).</p> <p>6AS/MD–3 Solve problems involving ratio relationships.</p>	<ul style="list-style-type: none"> Understands ratio as a comparison of one part or amount with another Can confidently use the language of ‘for every’ when describing a ratio. Can use ratio to show the relative size of two quantities 	<p>*Describe the proportional relationship between 2 factors using ratio and proportion *Solve simple ratio problems *Use a bar model to tackle ratio problems where we know the whole and the ratio</p> <p>*Use ratio and proportion to solve problems with 3 unknowns</p> <p>*Simplifying ratio to solve problems</p> <p>*Using and applying ratio and proportion to solve a range of problems</p> <p>*Solving problems involving scaling</p> <p>*Solving problems with scale factors</p> <p>*Scale factors and shape *Use multiplication to solve correspondence problems</p> <p>*Application to SATs questions embedded into each unit of work at the appropriate stage of an objective</p>
Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison		<ul style="list-style-type: none"> Understands proportion as a fraction of the whole amount Can use percentages equivalents to describe a proportion 	
Solve problems involving similar shapes where the scale factor is known or can be found		<ul style="list-style-type: none"> Understands direct proportion by scaling quantities up and down Understands ratio as additive change or a multiplicative change Can scale up/down recipes for a given number. 	
Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.		<ul style="list-style-type: none"> Can investigate possible answers to a question where one fraction has an impact on the other. 	

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Block 7			
Algebra			
Substantive Knowledge National Curriculum	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview
Use simple formulae	6AS/MD–1 Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding.	<ul style="list-style-type: none"> Understands that a value can be replaced by a number or a symbol Can solve missing box calculations by using inverse. Can use formulae for other areas of learning e.g. perimeter and measure Can substitute values into a formula to find an answer. Can show a good understanding of the equals sign as a balancing symbol 	<ul style="list-style-type: none"> *Introduction to algebra *Use simple formulae *Express missing number problems algebraically *Finding unknowns in algebraic equations *Enumerate possibilities of combinations of two variables *Problem solving using money and measure problems with 2 unknowns *Solve problems with 2 unknowns and express this algebraically *Generate and describe linear number sequences *nth term and formula for sequences *Application to SATs questions embedded into each unit of work at the appropriate stage of an objective
Generate and describe linear number sequences		<ul style="list-style-type: none"> Can create a number sequence given a rule to follow. Understands a linear equation can be recursive, i.e. one number in the sequence is generated from the preceding number <i>e.g. by adding 3 to the preceding number</i> Understands a linear equation can be ordinal, i.e. the position of the number in the sequence generates the number <i>e.g. by multiplying the position by 3, and then subtracting 2</i> 	
Express missing number problems algebraically		<ul style="list-style-type: none"> Can use symbols to express missing number problems Can find values that satisfy the equation and make it a true statement. Understands the associative law and can apply it to missing number problems Understands the distributive law and can apply it to missing number problems 	
Find pairs of numbers that satisfy an equation with two unknowns	6AS/MD–4 Solve problems with 2 unknowns.	<ul style="list-style-type: none"> Can substitute numbers into unknowns to find a given value where there are limited answers. 	
Enumerate possibilities of combinations of two variables		<ul style="list-style-type: none"> Can identify different variables and consider the impact on one when one changes <i>e.g. list all the combinations of boys and girls in a class where there are twice as many boys as girls and between 25 & 35 children in the class altogether.</i> 	

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Block 8			
Measure			
Substantive Knowledge	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview
National Curriculum			
Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate	6NPV–1 Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000).	<ul style="list-style-type: none"> • Can recall approximate conversions and is able to tell if an answer is sensible. • Can use decimal notation in a variety of formats to solve a problem. 	<ul style="list-style-type: none"> *Reading a range of scales *Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate *Convert between miles and kilometres *Convert between different units of time *Recap on area and perimeter from Y5 if needed.
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 to up to three decimal places	<p>6NPV–2 Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning.</p> <p>6NPV–3 Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts.</p> <p>6NPV–4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.</p>	<ul style="list-style-type: none"> • Can explain the relationship between conversions • Can make estimates based on approximate conversions. <ul style="list-style-type: none"> ○ 1 litre is approximately 2 pints (more accurately, 1 $\frac{3}{4}$ pints) ○ 4.5 litres is approximately 1 gallon or 8 pints ○ 1 kilogram is approximately 2 lb (more accurately, 2.2 lb) ○ 30 grams is approximately 1 oz ○ 8 kilometres is approximately 5 miles 	<ul style="list-style-type: none"> *Recognise that shapes with the same areas can have different perimeters and vice versa *Calculate the area of triangles *Calculate the area of parallelograms *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 [for example, mm³ and km³].
Convert between miles and kilometres		<ul style="list-style-type: none"> • Can use the conversion of miles to Km to apply to other facts. 	<ul style="list-style-type: none"> *Application to SATs questions embedded into each unit of work at the appropriate stage of an objective
Recognise that shapes with the same areas can have different perimeters and vice versa		<ul style="list-style-type: none"> • Can measure and calculate the perimeter and area of composite rectilinear shapes • Can calculate the perimeters of compound shapes that can be split into rectangles. • Can identify shapes that have the same area but have different perimeters 	

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Recognise when it is possible to use formulae for area and volume of shapes		<ul style="list-style-type: none"> • Understands when to use a formula to find the area of a shape. • Understands when to use the formula to find the volume of a shape. 	
Calculate the area of parallelograms and triangles		<ul style="list-style-type: none"> • Can calculate the area of right-angled triangles using their knowledge of a square • Can generalise how to find the area of a triangle • Can calculate the area of a parallelogram using their knowledge of squares and triangles. 	
Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3), and extending to other units [for example, mm^3 and km^3].		<ul style="list-style-type: none"> • Can find volumes of regular and irregular 3D shapes using cubes. • Can estimate and compare volumes. • Can calculate volume using the formula length x width x height • Can record volume using cubic units (cm^3, m^3, mm^3 and km^3) 	

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Block 9			
Geometry - Shape and Position and Direction			
Substantive Knowledge	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview
National Curriculum			
Draw 2-D shapes using given dimensions and angles	6G–1 Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems.	<ul style="list-style-type: none"> Can identify, visualise and describe properties of rectangles, triangles and regular polygons Can use knowledge of properties to draw 2-D shapes Can use a ruler to measure accurately within 1mm Can use a ruler to draw lines accurately within 2mm Can use a protractor to measure angles accurately within 1 degree Can use a protractor to draw angles accurately within 2 degrees Can construct a triangle given two sides and the included angle 	<ul style="list-style-type: none"> *Draw and compose 2-D shapes using given dimensions and angles *Compare and classify triangles based on their properties *Compare and classify quadrilaterals based on their properties *Compare and classify polygons based on their properties *Find missing angles on a straight line *Recognise missing angles in triangles *Recognise missing angles in quadrilaterals *Find unknown angles in regular polygons
Recognise, describe and build simple 3-D shapes, including making nets		<ul style="list-style-type: none"> Identify, visualise and describe properties of 3-D solids Identify 3D shapes from their nets and explain why, including open and closed cubes Draw nets of 3-D shapes with given dimensions 	<ul style="list-style-type: none"> *Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius *Describe positions on a full coordinate grid *Draw and translate a shape and describe the new position on the coordinate grid. *Draw and reflect a shape and describe the new position on the coordinate grid. *Recognise, describe and build simple 3-D shapes, including making nets
Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons		<ul style="list-style-type: none"> Can recognise the properties of isosceles, right angled, equilateral and scalene triangles Can recognise the properties of squares, rectangles, rhombuses, parallelograms, trapeziums and kites Can explain why a polygon is regular or irregular Can identify whether a triangle is isosceles from known angles and sides Can find unknown angles in all triangles, given one angle 	
Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius		<ul style="list-style-type: none"> Can recognise that the circumference is the distance around a circle Can explain that the radius is the distance from the centre to the circumference Can explain that the diameter is 2x the radius 	<ul style="list-style-type: none"> *Application to SATs questions embedded into each unit of work at the appropriate stage of an objective

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<p>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</p>		<ul style="list-style-type: none"> • Can estimate angles • Can use a protractor to measure and draw angles on their own and in shapes Can explain that: <ul style="list-style-type: none"> • the angle sum of a triangle is 180° • the angles on a straight line add to 180° • the sum of angles around a point is 360° • Can recognise vertically opposite angles and know that they are equal • Can find missing angles in a variety of contexts 	
<p>Describe positions on the full coordinate grid (all four quadrants)</p>		<ul style="list-style-type: none"> • Can draw an axis for the four quadrants with equal spacing and negative numbers. • Can describe the vertices of a shape in all four quadrants • Can use the properties of a shape to complete the vertices of the shape. 	
<p>Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</p>		<ul style="list-style-type: none"> • Can draw a shape after a reflection of a simple shape in two mirror lines. • Can draw a shape after a shape has been translated across the four quadrants. 	

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Block 10			
Statistics			
Substantive Knowledge	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview
National Curriculum			
Interpret and construct pie charts and line graphs and use these to solve problems	6NPV–4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.	<ul style="list-style-type: none"> • Can use knowledge of fractions and percentages to interpret pie charts • Can construct a simple pie chart using common fractions • Can interpret a line graph when the answer lies between two given intervals • Can interpret a line graph that represents a conversion e.g. miles/kilometres 	<ul style="list-style-type: none"> *Construct and interpret line graphs and use these to solve problems *Construct and interpret pie charts and use these to solve problems *Applying percentage to pie charts *Calculate and interpret mean as an average *Substantial problem solving <p>*Application to SATs questions embedded into each unit of work at the appropriate stage of an objective</p>
Calculate and interpret the mean as an average.		<ul style="list-style-type: none"> • Can calculate the mean of a set of numbers • Understands that the mean is an average and understands when it is appropriate to find the mean of a set of data 	

Block 11
<p style="text-align: center;">Number, Geometry and Substantial Problem Solving</p> <p style="text-align: center;">Following on from National Assessments in May, teachers will assess children’s understanding against all Ready to Progress statements and plan to cover any areas that need further consolidation. They will then consider covering any areas of the KS2 curriculum that were not covered fully or to a deeper level prior to the National Assessments.</p> <p>Children will tackle open-ended problem solving and further develop their understanding at Greater Depth as appropriate using activities from the First4Maths Digging Deeper books and NRich.</p> <p>Teachers will consider the additional skills that children need to secure prior to KS3, e.g. effective use of timetables, financial awareness and using equipment such as a calculator and protractor.</p> <p style="text-align: center;">Additional projects will be explored to allow the children to explore the purpose of mathematics through open-ended investigations.</p>