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	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 13 weeks	Place Value				Four operations					Prime numbers	Statistics	
Spring 12 weeks	Fractions				Decimals		Percentages		Algebra	Angles and shape		Position & Direction
Summer 13 weeks	converting units	Area & Perimeter	Volume		Measures (Y5) SATS (Y6)		Fractions, Decimals, Percentages (Y5) Investigative Maths (Y6)		Four operations and consolidation/Investigative maths			



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	Week 1 – 4 Place Value	Week 5-9 Four operations	Week 10 Prime numbers	Week 11-12 Statistics
Autumn Term 13 weeks	<p>Read, write, order and compare numbers to at least 1000000 and determine the value of each digit.</p> <p>Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.</p> <p>Count forwards or backwards in steps of powers of 10 for any given number up to 1000000.</p> <p>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero.</p> <p>Use negative numbers in context, and calculate intervals across zero.</p> <p>Round any number up to 1000000 to the nearest 10, 100, 1000, 10000 and 100000</p> <p>Round any whole number to a required degree of accuracy.</p> <p>Solve number problems and practical problems that involve all of the above.</p> <p>Solve number and practical problems that involve all of the above.</p> <p>Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.</p> <p>Read, write, order and compare numbers with up to three decimal places.</p> <p>Identify the value of each digit in numbers given to three decimal places and multiply numbers by 10, 100 and 1000 giving answers up to 3dp.</p> <p>Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.</p> <p>Round decimals with two decimal places to the nearest whole number and to one decimal place.</p> <p>Solve problems involving number up to three decimal places.</p> <p>Solve problems which require answers to be rounded to specified degrees of accuracy.</p> <p>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</p>	<p>Add and subtract numbers mentally with increasingly large numbers.</p> <p>Perform mental calculations, including with mixed operations and large numbers.</p> <p>Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)</p> <p>Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.</p> <p>Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy.</p> <p>Solve addition and subtraction multi-step problems in contexts deciding which operations and methods to use and why.</p> <p>Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why.</p> <p>Multiply and divide numbers mentally drawing upon known facts.</p> <p>Multiply and divide whole numbers by 10, 100 and 1000.</p> <p>Perform mental calculations, including with mixed operations and large numbers.</p> <p>Multiply numbers up to 4 digits by a one or two digit number using a formal written method, including long multiplication for 2 digit numbers.</p> <p>Multiply multi-digit number up to 4 digits by a 2 digit number using the formal written method of long multiplication.</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>Divide numbers up to 4 digits by a 2 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> <p>Divide numbers up to 4 digits by a 2 digit number using the formal written method of short division, interpreting remainders according to context.</p> <p>Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.</p> <p>Identify common factors, common multiples and prime numbers.</p> <p>Recognise and use square numbers and cube numbers and the notation for squared (2) and cubed (3)</p> <p>Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.</p> <p>Solve problems involving addition and subtraction, multiplication and division and a combination of these, including understanding the use of the equals sign.</p> <p>Solve problems involving addition, subtraction, multiplication and division.</p> <p>Use their knowledge of the order of operations to carry out calculations involving the four operations.</p>	<p>Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.</p> <p>Establish whether a number up to 100 is prime and recall prime numbers up to 19</p>	<p>Solve comparison, sum and difference problems using information presented in a line graph.</p> <p>Interpret and construct pie charts and line graphs and use these to solve problems</p> <p>Complete, read and interpret information in tables including timetables.</p> <p>Calculate the mean as an average.</p>



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	Week 1 – 4 Fractions	Week 5-6 Decimals	Week 7-8 Percentages	Week 9 Algebra	Week 10-11 Angles & Shape	Week 12 Position & Direction
Spring Term 12 weeks	<p>Compare and order fractions whose denominators are multiples of the same number. Compare and order fractions, including fractions > 1 Generate and describe linear number sequences (with fractions)</p> <p>Identify, name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths.</p> <p>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</p> <p>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number [for example $2\frac{1}{5} + 4\frac{1}{5} = 6\frac{1}{5} = 1\frac{1}{5}$]</p> <p>Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</p> <p>Add and subtract fractions with different denominations and mixed numbers, using the concept of equivalent fractions.</p> <p>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.</p> <p>Multiply simple pairs of proper fractions, writing the answer in its simplest form</p> <p>Divide proper fractions by whole numbers [for example $\frac{1}{3} \div 2 = \frac{1}{6}$]</p> <p>Read and write decimal numbers as fractions [for example $0.71 = \frac{71}{100}$] Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example $\frac{3}{8}$]</p> <p>Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</p> <p>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</p> <p>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</p>	<p>Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.</p> <p>Multiply one digit numbers with up to 2dp by whole numbers.</p> <p>Use written division methods in cases where the answer has up to two decimal places</p>	<p>Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal.</p> <p>Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$ $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25.</p> <p>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</p> <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.</p>	<p>Use simple formulae.</p> <p>Generate and describe linear number sequences.</p> <p>Express missing number problems algebraically</p> <p>Find pairs of numbers that satisfy an equation with two unknowns.</p> <p>Enumerate possibilities of a combination of two variables.</p> <p>Year 5- Recap Fractions, decimals and percentages in a practical context</p>	<p>Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.</p> <p>Draw given angles, and measure them in degrees</p> <p>Draw 2D shapes using given dimensions and angles.</p> <p>Identify: angles at a point and one whole turn (total 360°), angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) other multiples of 90°</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>Identify 3D shapes, including cubes and other cuboids, from 2D representations.</p> <p>Use the properties of rectangles to deduce related facts and find missing lengths and angles.</p> <p>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</p> <p>Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons.</p> <p>Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</p> <p>Solve problems involving similar shapes where the scale factor is known or can be found.</p>	<p>Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.</p> <p>Describe positions on the full coordinate grid (all four quadrants).</p> <p>Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</p>



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	Week 1 converting units	Week 2 Area & Perimeter	Week 3 Volume	Week 4-5 Measures (Y5) SATs	Week 6-8 - Fractions, Decimals, Percentages (Y5) Investigative Maths (Y6)	Week 9-12 Four operations
Summer Term 13 weeks	<p>Convert between different units of metric measure (, km and m; cm and m; cm and mm; g and kg; l and ml)</p> <p>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 3dp.</p> <p>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.</p> <p>Convert between miles and kilometres.</p> <p>Solve problems involving converting between units of time</p> <p>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.</p>	<p>Measure and calculate the perimeter of composite rectilinear shapes in cm and m.</p> <p>Calculate the area of parallelograms and triangles.</p> <p>Calculate and compare the area of rectangles (including squares), and including using standard units, cm², m²</p> <p>estimate the area of irregular shapes.</p> <p>Recognise that shapes with the same areas can have different perimeters and vice versa.</p>	<p>Estimate volume [for example using 1cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]</p> <p>Calculate, estimate and compare volume of cubes and cuboids using standard units, including cm³, m³ and extending to other units (mm³, km³)</p> <p>Use all four operations to solve problems involving measure</p> <p>Recognise when it is possible to use formulae for area and volume of shapes.</p>	<p>Revisit and consolidate Y5 measure objectives</p> <p>Y6 SATS</p>	<p>Revisit & consolidate</p> <p>Year 6- Revisit and consolidate</p>	<p>Using four operations in a practical context.</p>



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