

Maths Yearly Overview Year: 5

	Autumn 1 1.1 (8 weeks)	Autumn 2 1.2 (7 weeks)	Spring 1 2.1 (6 weeks)	Spring 2 2.2 (6 weeks)	Summer 1 3.1 (5 weeks)	Summer 2 3.2 (7 weeks)
Week 1	<p>Maths meeting: Addition and subtraction (counting in powers of 10 up to 1mill)</p> <p>NC objectives: Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit</p> <p>Solve number problems and practical problems that involve all of the above</p>	<p>Maths meeting: Factors and multiples (common factors/multiples)</p> <p>Objectives: 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>Maths meeting: Factors and multiples</p> <p>Objectives: 5F-2 Find equivalent fractions and understand that they have the same value and the same position in the linear number system.</p> <p>Identify, name and write equivalent fractions</p>	<p>Maths meeting: Rounding</p> <p>Objectives: 5NPV-2 Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to 2 decimal places using standard and nonstandard partitioning.</p> <p>Read, write, order and compare numbers with up to 3 decimal places</p> <p>Read and write decimal numbers as fractions [for example $0.71 = \frac{71}{100}$]</p>	<p>Maths meeting: Multiplying and dividing by 10 and 100</p> <p>Objectives: Solve simple measure and money problems involving fractions and decimals to two decimal places. (Adding/subtracting decimals)</p> <p>5NF-2 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth).</p> <p>Find the effect of dividing a one or two-digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths</p>	<p>Maths meeting: Mental multiplication and division</p> <p>Objectives: 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>
Week 2	<p>Maths meeting: Multiplication and division (counting in powers of 10 up to 1mill)</p> <p>Objectives: Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit</p>	<p>Maths meeting: Lowest common factors and multiples</p> <p>Objectives: 5MD-1 Multiply and divide numbers by 10 and 100; understand this as equivalent to making a number 10 or 100 times the size, or 1</p>	<p>Maths meeting: Prime, square and cube numbers</p> <p>Objectives: Recognise mixed numbers and improper fractions and convert between them</p>	<p>Maths meeting: Multiplication</p> <p>NC objectives: 5NPV-1 Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1. Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the</p>	<p>Maths meeting: Money</p> <p>Objectives: 5G-1 Compare angles, estimate and measure angles in degrees (°) and draw angles of a given size.</p> <p>Know angles are measured in degrees:</p>	<p>Maths meeting: Division</p> <p>Objectives: 5NPV-5 Convert between units of measure, including using common decimals and fractions.</p> <p>Convert between different units of metric</p>

	Solve number problems and practical problems that involve all of the above	<p>tenth or 1 hundredth times the size</p> <p>Multiply and divide wholes numbers by 10, 100 and 1000s</p>		<p>size of 0.01. Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01.</p> <p>Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</p>	<p>estimate and compare acute, obtuse and reflex angles.</p> <p>Draw given angles, and measure them in degrees.</p>	<p>measure [for example, km and m; cm and m; cm and mm; g and kg; l and ml]</p> <p>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.</p>
Week 3	<p>Maths meeting: Counting negative numbers and Roman numerals (up to 1000 and years)</p> <p>Objectives: Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000 (using rounding to estimate 2/3dig)</p> <p>Solve number problems and practical problems that involve all of the above</p>	<p>Maths meeting: Equivalent fractions</p> <p>Objectives: 5G–2 Compare areas and calculate the area of rectangles (including squares) using standard units.</p> <p>Calculate and compare the area of rectangles (including squares) including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes</p>	<p>Maths meeting: Factors and multiples</p> <p>Objectives: Compare and order fractions whose denominators are all multiples of the same number</p>	<p>Maths meeting: Properties of 2D shapes</p> <p>Objectives: 5NPV–3 Reason about the location of any number with up to 2 decimal places in the linear number system, including identifying the previous and next multiple of 1 and 0.1 and rounding to the nearest of each.</p> <p>Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place</p> <p>Read, write, order and compare numbers with up to 3 decimal places</p>	<p>Maths meeting: 1 or 2 step problems</p> <p>Tables/graphs</p> <p>Objectives: Identify: angles at a point and one whole turn (total 360°), angles at a point on a straight line and ½ a turn (total 180°) other multiples of 90°</p> <p>Use the properties of rectangles to deduce related facts and find missing lengths and angles.</p>	<p>Maths meeting: Prime, square and cubed numbers</p> <p>Objectives: Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.</p> <p>Solve problems involving converting between units of time</p>
Week 4	<p>Maths meeting: Counting - negative numbers and Roman numerals</p> <p>Objectives: Add and subtract whole numbers with more than</p>	<p>Maths meeting: Properties of 2D shapes</p> <p>Objectives: Measure and calculate the perimeter of composite rectilinear</p>	<p>Maths meeting: Negative numbers and Roman Numerals</p> <p>Objectives: Add and subtract fractions with the same denominator and</p>	<p>Maths meeting: Place value</p> <p>Objectives: Recognise the per cent symbol (%) and understand that per cent relates to ‘number of</p>	<p>Maths meeting: Properties of 2D shapes</p> <p>Objectives: Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.</p>	<p>Maths meeting: Division</p> <p>Objectives: Estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and</p>

	<p>4 digits, including using formal written methods (columnar addition and subtraction)</p> <p>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p>	<p>shapes in centimetres and metres</p>	<p>denominators that are multiples of the same number</p>	<p>parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction</p>	<p>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</p>	<p>capacity [for example, using water]</p> <p>Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.</p>
Week 5	<p>Maths meeting: Add and subtract numbers mentally with increasingly large numbers</p> <p>Objectives: Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)</p> <p>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p>	<p>Maths meeting: Multiplying and dividing by 10/100/100 Timetables</p> <p>Objectives: 5MD-3 Multiply any whole number with up to 4 digits by any one-digit number using a formal written method.</p> <p>Multiply numbers up to 4 digits by 1 or 2 digit numbers</p>	<p>Maths meeting: Addition</p> <p>Objectives: Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams</p>	<p>Maths meeting: Division</p> <p>Objectives: 5F-3 Recall decimal fraction equivalents for $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, and $\frac{1}{10}$, and for multiples of these proper fractions.</p> <p>5NPV-4 Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts.</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>Maths meeting: Multiplying and dividing by 10</p> <p>Objectives: 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>Consolidate division</p>
Week 6	<p>Maths meeting: Multiply and divide numbers mentally and</p>	<p>Maths meeting: Use rounding to check answers to calculations and determine, in the</p>	<p>Maths meeting: Subtraction</p> <p>Objectives:</p>	<p>Maths meeting: Addition and subtraction</p>		<p>Consolidate fractions, decimals, percentages</p>

	<p>counting in times tables</p> <p>Objectives: Complete, read and interpret information in tables, including timetables.</p> <p>Solve comparison, sum and difference problems using information presented in a line graph</p>	<p>context of a problem, levels of accuracy</p> <p>Objectives: 5MD–4 Divide a number with up to 4 digits by a one-digit number using a formal written method, and interpret remainders appropriately for the context.</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>5F–1 Find non-unit fractions of quantities</p> <p>Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</p>	<p>Recognise and write decimal equivalents of any number of tenths or hundredths</p> <p>Solve simple measure and money problems involving fractions and decimals to two decimal places.</p> <p>(Adding/subtracting decimals)</p>		
Week 7	<p>Maths meeting: Identify multiples and factors, including finding all factor pairs of a number</p> <p>Objectives: Complete, read and interpret information in tables, including timetables.</p> <p>Solve comparison, sum and difference problems using information presented in a line graph</p>	<p>Maths meeting: Properties of 3D shapes</p> <p>Objectives: Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes</p> <p>Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign</p>				Consolidate fractions, decimals, percentages
Week 8	<p>Maths meeting: Addition and subtraction of more than 4 digits.</p>					

Times tables – fact families

5NF–1 Secure fluency in multiplication table facts, and corresponding division facts, through continued practice.

Objectives:

5MD–2 Find factors and multiples of positive whole numbers, including common factors and common multiples, and express a given number as a product of 2 or 3 factors.

Identify multiples and factors, including finding all factor pairs of a number

Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers

Establish whether a number up to 100 is prime and recall prime numbers up to 19