

	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	Number: Place Value		Number: Addition, Subtraction, Multiplication and Division				Number: Fractions				Geometry: Position and Direction	Consolidation
Spring	Number: Decimals	Number: Percentages	Number: Algebra			Measurement: Converting Units	Measurement: Perimeter, Area and Volume	Number: Ratio			Consolidation	
Summer	Geometry: Properties of Shape	Problem Solving			Statistics		Investigations				Consolidation	

Autumn

Block 1 - Number: Place Value

- 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 all of the above.

Block 2 - Number: Four Operations

- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
- Multiply multi-digit numbers up to 4 digits by a 2-digit number using the formal written method of long multiplication.
- 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.
- Divide numbers up to 4 digits by a 2-digit number using the formal written method of short division, 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 problems involving addition, subtraction, multiplication and division.
- Use estimations to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy.

Block 3 – Fractions

- Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.
- Compare and order fractions, including fractions > 1 .
- Generate and describe linear number sequences (with fractions).
- Add and subtract fractions with different denominations and mixed numbers, using the concept of equivalent fractions.
- Multiply simple pairs of proper fractions, writing the answer in its simplest form (for example $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$).
- Divide proper fractions by whole numbers (for example $\frac{1}{3} \div 2 = \frac{1}{6}$).
- Associate a fraction with division and calculate decimal fraction equivalents (for example, 0.375) for a simple fraction (for example $\frac{3}{8}$).
- Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.

Block 4: Geometry: Position & Direction

- 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.

Spring

Block 1 - Number: Decimals

- Identify the value of each digit in numbers given to 3 decimal places and multiply 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.

Block 2 – Number: Percentages

- Solve problems involving the calculation of percentages (for examples, of measures and such as 15% of 360) and the use of percentages for comparison.
- Recall and use equivalences between simple fractions, decimals and percentages including in different contexts.

Block 3 – Number: Algebra

- 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.

Block 4 – Measurement: Converting Units

- Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.
- Use, read, write and convert between standard units, converting measurements of lengths, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places.
- Convert between miles and kilometres.

Block 5 – Measurement: Perimeter, Area & Volume

- 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 cm^3 , m^3 , and extending to other units (mm^3 , km^3).

Block 6 – Number: Ratio

- 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.

Summer

Block 1 – Geometry: Properties of Shapes

- Draw 2-D shapes using given dimensions and angles.
- 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.
- Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.

Block 2 – Problem solving

Block 3 – Statistics

- Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.
- Interpret and construct pie charts and line graphs and use these to solve problems.
- Calculate the mean as an average.

Block 4 – Investigations