Number	Place Value	Addition and Subtraction	Multiplication and Division	Number
YEAR 6 **Objectives to be covered during the Spring Term**	Order positive and negative whole numbers; Use negative numbers in context, and calculate intervals across zero Count on/back in steps of 25 ,0.2, 0.25, 0.5… Count on/back in steps of 0.1, 0.2, 0.25, 0.5. and then back.	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	Use informal pencil and paper methods to support, record or explain mulitply and divide. Extend written methods to ThHTU x U and short multiplication involving decimal and with problem solving.	Use their knowledge of the order of operations to carry out calculations involving the 4 operations including those using brackets.

	Algebra	Geometry – Properties of Shapes	Geometry – Position, movement and scales	Fractions, Decimals and Percentages and Ratio
YEAR 6 **Objectives to be covered during the Spring Term**	Use simple formulae and develop a generalised relationsip in words; express it in a formulae using symbols. Generate and describe linear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equation with 2 unknowns Enumerate possibilities of combinations of 2 variables	Recognise angles where they meet at a point or on a straight line or are vertically opposite. Find missing angles. Recognise and estimate acute and obtuse. Use a protractor to measure and draw acute and obtuse angles to one degree of accuracy. Calculate angles in a triangle or round a point. Illustrate a name parts of circles including radius, diameter and circumference and know the diameter is twice the radius. Solve shape puzzles. Explain methods both orally and in writing. Visualise 3d shapes from 2d drawings. Identify nets of closed cubes.	Recognise where a shape will be after two translations Recognise where a shape will be after a 90 degree rotation around a vertex. Recognise where a shape will be after reflection in a line not parallel to a side or in two mirrors at 90 degrees. Consolidate work on translations and rotations.	Add and subtract fractions with different denominators 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, $\frac{1}{3} \div 2 = \frac{1}{6}$] Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison. Solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts. Solve simple problems involving ratio and proportion. 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.

Number	Measurement			
YEAR 6 **Objectives to be covered during the Spring Term**	Recognise shapes of the same area can have different perimeters and vice versa Calculate the perimeter of rectangles or compound shapes. Calculate the area of parallelograms and triangles. Use formula for area of rectangles. 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]			