

Year Six	Date(s) seen	Have they shown understanding at greater depth?
Number – Place Value		
Know how to recognise the value of each digit to 10, 000, 000		
Know how to read and write numbers up to 10, 000, 000		
Know how to compare numbers up to 10, 000, 000		
Know how to round any whole number to the required degree of accuracy		
Know how to round any number to the nearest 10, 100, 1000, 10, 000 or 100, 000		
Know how to calculate intervals across 0		
Unit Level:		
Number – Addition and Subtraction, Multiplication and Division		
Know how to solve multi-step problems and understand the relationship between addition and subtraction		
Know how to use long multiplication to multiply multi-digit numbers up to 4 digits by 2 digits		
Know how to use long division to divide a 4 digit number by a 2 digit number		
Know how to identify common factors and multiples		
Know the order of operations and use this to mentally solve calculations involving the four operations		
Unit Level:		
Fractions		
Know how to simplify fractions		
Know how to compare and order fractions including fractions greater than 1		
Know how to use equivalent fractions to add fractions with different denominators and mixed numbers		
Know how to use equivalent fractions to subtract fractions with different denominators and mixed numbers		
Know how to multiply simple pairs of fractions and write them in their simplest form		
Know how to divide simple pairs of fractions and write them in their simplest form		
Unit Level:		
Decimals		
Know how to read a number up to 3 decimal places and recognise each place		
Know how to multiply and divide numbers by 10,100 and 1000 giving answers up to 3 decimal places		
Multiply 1 digit numbers with up to 2 decimal places by whole numbers		
Know how to use written methods of division to divide a number where the answer has up to 2 decimal places		
Know how to find fraction decimal equivalents		
Know how to recall and use equivalences between simple fractions, decimals and percentages		
Unit Level:		
Ratio and Proportion		
Know how to solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts		
Know how to solve problems involving the calculation of percentages		
Know how to solve problems involving the comparison of percentages		
Know how to solve problems involving similar shapes where the scale factor is known or can be found		
Know how to solve problems involving unequal sharing and grouping using knowledge of fractions and multiples		
Unit Level:		
Measurement		
Know how to solve problems involving the calculation and conversion of units of measure		
Know how to read standard units for length, mass, volume and time		
Know how to write standard units for length, mass, volume and time		
Know how to convert between standard units for length, mass, volume and time from a smaller unit to a larger unit and vice verse up to three decimal places		

Know how to convert between miles and kilometres		
Know that shapes with the same areas can have different perimeters and vice versa		
Know how to use formulae for area and volume of shapes		
Know how to calculate the area of parallelograms and triangles		
Know when it is possible to use formulae for area and volume of shapes		
Know how to calculate the area of parallelograms and triangles		
Know how to calculate the volume of cubes and cuboids		
Know how to estimate the volume of cubes and cuboids		
Know how to compare the volume of cubes and cuboids		
Unit Level:		
Geometry – Angles		
Know how to recognise angles where they meet at a point, on a straight line or are vertically opposite		
Know how to find missing angles		
Know how to find unknown angles in triangles, quadrilaterals and regular polygons		
Unit Level:		
Geometry: Properties of Shapes		
Know how to draw 2D shapes using given dimensions and angles		
Know how to recognise and describe simple 3D shapes		
Know how to build 3D shapes including making nets		
Know how to compare and classify geometric shapes based on their properties and sizes		
Know the names of parts of the circle including radius, diameter and circumference		
Know that the diameter is twice the radius		
Geometry: Position and Direction		
Know how to describe positions on the full coordinate grid (all 4 quadrants)		
Know how to draw and translate simple shapes on the coordinate plane		
Now how to reflect simple shapes in the axes		
Unit Level:		
Algebra		
Know how to use simple formulae		
Know how to generate linear number sequences		
Know how to describe linear number sequences		
Know how to express missing number problems algebraically		
Know how to find a pair of numbers that satisfy an equation with two unknowns		
Know how to establish all the possibilities of combinations of two variables		
Unit Level:		
Statistics		
Know how to read pie charts and line graphs		
Know how to construct pie charts and line graphs		
Know how to calculate and interpret the mean as an average		
Unit Level:		