

Strands Covered	Building Block	Y6 Key Objectives
Number and Place Value	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit <i>recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</i> round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000 <i>round decimals with two decimal places to the nearest whole number and to one decimal place</i> solve number problems and practical problems that involve all of the above	Use negative numbers in context, and calculate intervals across zero Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Understanding Place Value, Reading and Writing Numbers) <i>Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places (copied from Fractions)</i> Round any whole number to a required degree of accuracy Solve problems which require answers to be rounded to specified degrees of accuracy (copied from Fractions) Solve number and practical problems that involve all of the above
Decimals and Fractions	Compare and order fractions whose denominators are all multiples of the same number Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	Decimals, fractions: compare, order Equivalent fractions: add and subtract

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	Add and subtract fractions with the same denominator and multiples of the same number Recognise the percent symbol (%) and understand that per cent relates to “number of parts per hundred”, and write percentages as a fraction with denominator 100 as a decimal fraction multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	Percentages and fractions of amounts Multiply and Divide fractions
Multiplication and Division	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers 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 Multiply and divide numbers mentally drawing upon known facts Recognise and use square	Multiples, factors and prime numbers Solve short multiplication problems Long multiplication problems Use short Division to solve problems Long Division; different remainder forms Formal and informal calculation strategies Use brackets and order of operations

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	numbers and cube numbers, and the notation for squared and cubed	
Algebra	use the properties of rectangles to deduce related facts and find missing lengths and angles (copied from Geometry: Properties of Shapes)	Generate and use simple formulae Solve equations with two unknowns Generate and continue linear sequences
Shape	Identify 2D shapes on the surface of 3-D shapes, [eg a circle on a cylinder and a triangle on a pyramid] 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 Draw given angles, and measure them in degrees use the properties of rectangles to deduce related facts and find missing lengths and angles Distinguish between regular and irregular polygons based on reasoning about equal sides and angles Identify: * angles at a point and one whole turn * angles at a point on a straight line and 1/2 a turn * other multiples of 90 degrees Identify 3-D shapes, including cubes and other cuboids, from 2-D representations	2-D shapes (circles and quadrilaterals) Draw, translate, reflect polygons Draw 2-D shapes; find missing angles Construct 3-D shapes using nets