

Year 5

Number: Place Value	Addition and Subtraction	Multiplication and Division
<ul style="list-style-type: none"> • Read, write, order and compare numbers to at least one million and determine that value of each digit • Roman Numerals to 1,000 • Round to one million • Compare and order numbers to one million • Counting in 10s, 100s, 1,000s, 10,000s & 100,000s • Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero 	<ul style="list-style-type: none"> • Add and subtract whole numbers with more than 4 digits (column method), including using formal written methods • Round to estimate and approximate • Inverse operations (addition and subtraction) • Multi-step addition and subtraction problems 	<ul style="list-style-type: none"> • Identify multiples and factors including finding all factor pairs of a number and common factors of two numbers • Solve problems involving multiplication and division • Prime, square & cube numbers • Multiply and divide by 10, 100 and 1,000 • Multiples of 10, 100 and 1,000 • Multiply and divide 4-digits by 1-digit • Multiply 2-digits (area model) • Multiply 2-digits/3-digits/4-digits by 2-digits • Divide with remainders
Decimals and Percentages	Fractions	Properties of shape
<ul style="list-style-type: none"> • Read, write and order decimals numbers up to 3 d.p • Read and write decimal numbers as fractions • Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ • Understand thousandths • Thousandths as decimals • Round, order and compare decimals • Understand percentages • Percentages as fractions and decimals • Equivalent fractions, decimals, percentages • Adding and subtracting decimals within 1 • Complements to 1 • Adding decimals – crossing the whole • Adding and subtracting decimals with the same number of decimal places • Adding and subtracting decimals with a different number of decimal places • Adding and subtracting wholes and decimals • Decimal sequences 	<ul style="list-style-type: none"> • Equivalent fractions • Improper fractions to mixed numbers • Mixed numbers to improper fractions • Number sequences • Compare & order fractions whose denominators are all multiples of the same number • Add and subtract fractions • Add fractions within 1 • Add 3 or more fractions • Add and subtract mixed numbers • Add and subtract fractions • Subtract – breaking the whole • Subtract 2 mixed numbers • Multiply unit and non-unit fractions by an integer • Multiply mixed numbers by integers • Fraction of an amount • Using fractions as operators 	<ul style="list-style-type: none"> • Measure and calculate the perimeter of composite rectilinear shapes in metres and centimetres • Calculate and compares the area of rectangles, using square centimetres (cm²) and square metres (m²) • Measuring angles in degrees • Measuring with a protractor • Drawing lines and angles accurately and measure them in degrees • Calculate angles on a straight line & around a point • Calculating lengths and angles in shapes • Distinguish between regular and irregular polygons based on reasoning about equal sides and angles • Reasoning about 3-D shapes
		Statistics
		<ul style="list-style-type: none"> • Complete, read and interpret line graphs, tables and timetables

- Multiply & divide decimals by 10, 100 & 1,000

- Draw line graphs
- Use line graphs to solve problems
- Two-way tables

Volume

- What is volume?
- Compare and estimate volume & capacity

Geometry: Position and Direction

Measurement: Converting Units

Perimeter and Area

- Position in the first quadrant
- Reflection and reflection with coordinates
- Translation and translation with coordinates

- Convert between different units of metric measure (kilometre and metre, centimetre and metre, centimetre and millimetre, gram and kilogram, litre and millilitre)
- Kilograms & kilometres; milligrams & millilitres
- Metric and imperial units
- Converting units of time
- Timetables

- Measure perimeter
- Calculate area
- Area of rectangles and compound shapes
- Area of irregular shapes