

Yr5	Number: Number and Place Value	Number: Addition and Subtraction	Number: Multiplication and Division	Number: Fractions and Decimals	Geometry: Shape, Position and Directions	Measurement: Length and Height, Weight, Volume and Time	Statistics
Autumn	<ul style="list-style-type: none"> • <u>Read, write, order and compare numbers to at least 1000000 and determine the value of each digit.</u> • Count forwards or backwards in steps of powers of 10 for any given number up to 1000000. • <u>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero.</u> • Round any number up to 1000000 to the nearest 10, 100, 1000, 10000 and 100000. • Solve number problems and practical problems that involve all of the above. • Read Roman numerals to 1000 (M) and recognise years written in Roman numerals. 	<ul style="list-style-type: none"> • <u>Add and subtract numbers mentally with increasingly large numbers.</u> • <u>Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)</u> • Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. 	<ul style="list-style-type: none"> • <u>Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers</u> • Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers • Establish whether a number up to 100 is prime and recall prime numbers up to 19 • Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 			<ul style="list-style-type: none"> • <u>Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres</u> • <u>Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes</u> 	<ul style="list-style-type: none"> • Solve comparison, sum and difference problems using information presented in a line graph. • <u>Complete, read and interpret information in tables including timetables.</u>

- Multiply and divide numbers mentally drawing upon known facts.
- Multiply numbers up to 4 digits by a one or two digit number using a formal written method, including long multiplication for 2 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.
- Solve problems involving addition and subtraction, multiplication and division and a combination of these, including understanding the use of the equals sign.

Fractions:

- Compare and order fractions whose denominators are multiples of the same number.
- Identify, name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths.
- Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number
- Add and subtract fractions with the same denominator and denominators that are multiples of the same number.

Decimals:

- Read, write, order and compare numbers with up to three decimal places.
- Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.
- Round decimals with two decimal places to the nearest whole number and to one decimal place.
- Solve problems involving number up to three decimal places.
- Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal.
- Solve problems which require knowing percentage and decimal equivalents and those fractions with a denominator of a multiple of 10 or 25

Summer				<ul style="list-style-type: none"> • Solve problems involving number up to three decimal places. • Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. • Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling. 	<ul style="list-style-type: none"> • Identify 3D shapes, including cubes and other cuboids, from 2D representations. • Use the properties of rectangles to deduce related facts and find missing lengths and angles. • <u>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</u> • Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. • <u>Draw given angles, and measure them in degrees.</u> • Identify: angles at a point and one whole turn (total 360°), angles at a point on a straight line and ½ a turn (total 180°) other multiples of 90° • 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. 	<ul style="list-style-type: none"> • <u>Convert between different units of metric measure [for example, km and m; cm and m; cm and mm; g and kg; l and ml]</u> • Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. • Solve problems involving converting between units of time. • Estimate volume [for example using 1cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water] • Use all four operations to solve problems involving measure. 	
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