

Maths Medium Term Plan 2021-2022: Y5

Autumn 1 (7 weeks)	Autumn 2 (7 weeks)
<p>Year 5.1 Place Value</p> <ul style="list-style-type: none"> ○ Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit ○ Count forwards and backwards in steps of powers of 10 for any given number up to 1 000 000 ○ Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero (including temperature) ○ Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 <p>Year 5.12 Statistics</p> <ul style="list-style-type: none"> ○ Solve comparison, sum and difference problems using information presented in a line graph ○ Complete, read and interpret information in tables, including timetables <p>Year 5.2 Addition and Subtraction</p> <ul style="list-style-type: none"> ○ Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) ○ Use rounding and the inverse operation to check answers to calculations ○ Solve addition and subtraction multi-step problems – deciding which operations and methods to use, including measure (length/mass/volume/money) 	<p>Year 5.3 Multiplication and division</p> <ul style="list-style-type: none"> ○ Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers ○ Know and use the vocabulary of prime numbers, prime factors and composite numbers ○ Establish whether a number up to 100 is a prime and recall prime numbers up to 19 ○ Recognise and use square numbers and cube numbers and the notation for these <p>Year 5.7 Measure</p> <ul style="list-style-type: none"> ○ Measure and calculate the perimeter of composite rectilinear shapes in cm and m ○ Calculate and compare area of rectangles, and including standard units, square cm and square m

Spring 1 (6 weeks)	Spring 2 (6 weeks)
Year 5.3 Multiplication and division	Year 5.4 Fractions, decimals and percentages

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| <ul style="list-style-type: none"> ○ Multiply numbers up to 4 digits by a one or two digit number using a formal written method, including long multiplication including measure (length/mass/volume/money) ○ Multiply and divide numbers mentally drawing upon known facts ○ 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 whole numbers by 10, 100 and 1000 including in the context of converting metric units of measure ○ Solve problems involving addition, subtraction, multiplication and division and a combination of these, including measure (length/mass/volume/money) | <ul style="list-style-type: none"> ○ Compare and order fractions whose denominators are all multiples of the same number ○ Identify, name and write equivalent fractions of a given fraction ○ Recognised mixed numbers and improper fractions, and convert between these ○ Add and subtract fractions with the same denominator, and denominators that are multiples of the same number ○ Multiply proper fractions and mixed numbers by whole numbers ○ Read and write decimal numbers as fractions ○ Recognise and use thousandths – relating them to tenths, hundredths and decimal equivalents |
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Summer 1 (6 weeks)	Summer 2 (7 weeks)
<p>Year 5.4 Fractions, decimals and percentages</p> <ul style="list-style-type: none"> ○ Round decimals with two decimal places to the nearest whole number and to one decimal place ○ Read, write, order and compare numbers with up to three decimal places ○ Multiply and divide decimal numbers by 10, 100 and 1000 – including in the context of converting metric units of measure ○ Recognise the per cent symbol (%) and understand that per cent relates to parts of 100, and write percentages as a fraction with denominator 100, and as a decimal ○ Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$, and those fractions with a denominator of a multiple of 10 or 25 	<p>Year 5.5 Shape</p> <ul style="list-style-type: none"> ○ Identify 3D shapes from 2D representations ○ Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles ○ Draw given angles and measure them in degrees ○ Identify: angles at a point and one whole turn, angles at a point on a straight line, other multiples of 90 degrees ○ Use the properties of rectangles to deduce related facts and find the missing lengths and angles ○ Distinguish between regular and irregular polygons based on reasoning about equal sides and angles <p>Year 5.6 Position and direction</p> <ul style="list-style-type: none"> ○ 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.

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