



# Year Five Maths Coverage 23/24

## Number and Place Value

PV1 Read and write numbers to at least 1 000 000 and determine the value of each digit	Autumn 1 Week 1 2 and 3
PV2 Order and compare numbers to at least 1 000 000 and determine the value of each digit	Autumn 1 Week 1 2 and 3
PV3 Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000	Autumn 1 Week 4
PV4 Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero	Autumn 1 Week 5
PV5 Solve number problems and practical problems that involve all of the above	Throughout Autumn 1 Weeks 1-5
PV6 Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	Counting strand throughout Autumn term

## Addition and Subtraction

AS1 Add and subtract numbers mentally with increasingly large numbers	Autumn 1 Week 6 and 7
AS2 Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)	Autumn 1 Week 6 and 7
AS3 Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	Throughout
AS4 Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	Throughout Autumn 1 Weeks 5-7

## Multiplication and Division

MD1 Multiply and divide numbers mentally drawing upon known facts	Throughout Autumn 2
MD2 Identify multiples and factors $\alpha$ , including finding all factor pairs of a number, and common factors of two numbers	Autumn 2 Week 1 and 2
MD3 Know and use the vocabulary of prime numbers, prime factors $\alpha$ and composite (non-prime) numbers. Establish whether a number up to 100 is prime and recall prime numbers up to 19	Autumn 2 Week 2 and 3
MD4 Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	Autumn 2 Week 2 and 3
MD5 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	Autumn 2 Week 4
MD6 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	Autumn 2 Week 5 and 6
MD7 Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes	Autumn 2 Week 1-6
MD8 Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign $\alpha$	Autumn 2 Week 1-6 <b>Summer 2 Week 4 Revision</b>
MD9 Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	Spring 1 Week 1

## Place Value

PV7 Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	Spring 1 Week 2
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## Fractions (including decimals and percentages)

F1 Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	Spring 1 Week 2
F2 Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements $>1$ as a mixed number, for example $2/5 + 4/5 = 6/5 = 1 \text{ \& } 1/5$	Spring 1 Week 3
F3 Compare and order fractions whose denominators are all multiples of the same number $\alpha$	Spring 1 Week 3

F4 Add and subtract fractions with the same denominator and denominators that are multiples of the same number	Spring 1 Week 4 and 5
F5 Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	Spring 1 Week 6
F6 Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.	Spring 2 Week 1
F7 Read and write decimal numbers as fractions for example, $0.71 = 71/100$	Spring 2 Week 2
F8 Read, write, order and compare numbers with up to three decimal places	Spring 2 Week 3
F9 Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	Spring 2 Week 3
F10 Round decimals with two decimal places to the nearest whole number and to one decimal place	Spring 2 Week 4
F11 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	Spring 2 Week 5
F12 Solve problems which require knowing percentage and decimal equivalents of $1/2$ , $1/4$ , $1/5$ , $2/5$ , and $4/5$ , those fractions with a denominator of a multiple of 10 or 25	Spring 2 Week 5
<b>Measurement</b>	
M1 Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	Summer 1 Week 1
M2 Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints	Summer 1 Week 2
M3 Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	Summer 1 Week 3
M4 Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres ( $\text{cm}^2$ ) and square metres ( $\text{m}^2$ ) and estimate the area of irregular shapes	Summer 1 Week 4
M5 Estimate volume, for example, using $1 \text{ cm}^3$ blocks to build cuboids (including cubes), and capacity for example, using water	Summer 1 Week 5
M6 Solve problems involving converting between units of time	Summer 1 Week 6
<b>Statistics</b>	
S1 Complete, read and interpret information in tables, including timetables	Summer 2 Week 1
S2 Solve comparison, sum and difference problems using information presented in a line graph	Summer 2 Week 1
<b>Geometry</b>	
G1 Identify 3-D shapes, including cubes and other cuboids, from 2-D representations	Summer 2 Week 2
G2 Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Identify: angles at a point and one whole turn (total $360^\circ$ ) angles at a point on a straight line and $\frac{1}{2}$ a turn (total $180^\circ$ ) other multiples of $90^\circ$	Summer 2 Week 3
G3 Draw given angles, and measure them in degrees ( $^\circ$ )	Summer 2 Week 3
G4 Use the properties of rectangles to deduce related facts and find missing lengths and angles and distinguish between regular and irregular polygons based on reasoning about equal sides and angles	Summer 2 Week 4
G5 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	Summer 2 Week 5

