

Year 5 Maths Curriculum.

In Year 5, we recap key information from the Year 4 curriculum before covering the following: -

PLACE VALUE
Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1. Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01. Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01.
Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to 2 decimal places using standard and nonstandard partitioning.
Place and identify whole numbers (beyond thousands) and decimal numbers (beyond hundredths) on a number line (including scales in measures and statistics) including identifying the previous and next multiple of 1 and 0.1 and rounding to the nearest of each
Place and identify negative numbers on a number line, explaining and justifying their decisions
ADDITION & SUBTRACTION
Apply place value knowledge to known additive number facts (scaling facts by 1 tenth or 1 hundredth) ie knowing how $6 + 8$ relates to $0.6 + 0.8$
Represent and explain addition and subtraction problems involving numbers with more than four-digit numbers in different contexts (including extracting information from graphs, charts, timetables and measuring scales).
Choose written or mental methods as appropriate.
MULTIPLICATION & DIVISION
Have fluency in multiplication table facts and corresponding division facts.
Apply place value knowledge to known multiplicative number facts (scaling facts by 1 tenth or 1 hundredth) ie knowing how 6×5 relates to 0.6×5 .
Multiply and divide numbers by 10 and 100; understand this as equivalent to making a number 10 or 100 x the size, or 1 tenth or 1 hundredth times the size.
Find factors and multiples of positive whole numbers, including common factors and common multiples, and express a given number as a product of 2 or 3 factors.
Multiply any 4d x 1d number using a formal written method
Divide a 4d number by a 1d number using a formal written method and interpret remainders appropriately.
FRACTIONS
Find non-unit fractions of quantities.
Find equivalent fractions and understand that they have the same value and the same position on a number line.
Recall decimal fraction equivalents for $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{10}$ and for multiples of these proper fractions
MEASURE
Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts.
Convert between units of measure, including using common decimals and fractions
GEOMETRY
Compare angles, estimate and measure angles in degrees ($^{\circ}$) and draw angles of a given size.
Apply understanding of angle to describe the properties of different shapes (regular and irregular).
Explain how to reflect and translate shapes on a grid in the first quadrant and use this knowledge and understanding to solve problems.
Represent and explain perimeter and area in relation to rectangles and use this understanding and their understanding of calculation, to solve problems involving rectilinear shapes, explaining and justifying their decisions.