Year 4   Mathematics Curriculum Overview

Aims

The national curriculum for mathematics aims to ensure that all pupils:

- become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately

- reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language

- can solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions

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Autumn Term

Topic	Skills
Number - Number and place value	• Read and write numbers to 1000 • Partition three-digit numbers into hundreds, tens, ones • Explain how the digits change when counting in tens or hundreds • Order a set of numbers to 1000 • Solve number problems and reason mathematically
Number - Addition and subtraction	• Add and subtract a pair of two-digit numbers • Add and subtract a three-digit number and ones • Add and subtract a three-digit number and tens
Geometry - Properties of shape	• Recognise, name and describe prisms • Visualise the skeletal outline of a 3-D shape
Number - Multiplication and division, including Number and place value	• Find 10 more or less than a given number • Identify two multiplication and two division facts from a given set of three numbers • Describe the relationship between multiplication and division • Recall the multiplication and division facts for the 3 multiplication table • Solve word problems and reason mathematically
Number - Fractions	• Find a unitary amount of a set of objects • Recognise a unit fraction as one item in a set of objects, e.g. 1/10 • Recognise a non-unit fraction as more than one item in a set of objects, e.g. 3/10 • Add fractions with the same denominator that total one whole
Measurement (mass)	• Measure mass in kilograms and grams • Compare mass in kilograms and grams • Add and subtract mass in kilograms and grams
Number - Addition and subtraction	• Add a three-digit number and ones • Add a three-digit number and tens • Add a three-digit number and hundreds • Solve word problems and reason mathematically
Number - Addition and subtraction	• Subtract a three-digit number and ones • Subtract a three-digit number and tens

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	• Subtract a three-digit number and hundreds • Solve word problems and reason mathematically
Geometry - Properties of shape	• Identify right angles in 2-D shapes • Make and describe right-angled turns • Give and follow directions to make turns • Recognise whether angles are equal to, greater than or less than a right angle
Number - Multiplication and division, including Number and place value	• Count on and back in steps of 4 • Recognise the multiples of 4 • Recall the multiplication facts for the 4 multiplication table • Recall the division facts for the 4 multiplication table • Multiply a multiple of 10 by 4
Number - Multiplication and division, including Number and place value	• Count on and back in steps of 8 • Recognise the multiples of 8 • Recall the multiplication facts for the 8 multiplication table • Recall the division facts for the 8 multiplication table • Multiply a multiple of 10 by 8 • Solve word problems and reason mathematically
Measurement (time)	• Tell and write the time on a 12-hour clock with hands • Tell and write the time on a 24-hour clock with hands • Use a time line and read words related to time • Estimate and measure time to the nearest minute