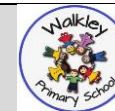


YEAR 4 MATHS CRUCIAL LEARNING



Year 4	Place Value	1. Count from 0 in multiples of 6,7,9,25 and 1000; Count backwards through 0 to include negative numbers 2. Identify, represent and estimate numbers using different representations 3. Read Roman Numerals to 100 (I to C) 4. Recognise the place value of each digit in a four-digit number 5. Find 1000 more or less than a given number 6. Compare and order numbers beyond 1000
Year 4	Addition and Subtraction	1. Estimate and use inverse operations to check the answer to a calculation 2. Add and subtract numbers with up to 4 digits using formal written methods of columnar addition and subtraction where appropriate 3. Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
Year 4	Multiplication and division	1. Recall and use multiplication and division facts for multiplication tables up to 12x12 2. Use place value and known and derived facts to multiply and divide mentally; Recognise and use factor pairs and commutativity in mental calculations. 3. Multiply two-digit and three-digit numbers by a one-digit number using formal written layout. 4. Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.
Year 4	Fractions	1. Count up or down in hundredths; recognise that hundredths arise from dividing an object by 100 and dividing tenths by 10. 2. Recognise and show using diagrams, families of common equivalent fractions. 3. Add and subtract fractions with the same denominator.
Year 4	Decimals	1. Recognise and write decimal equivalents of any number of tenths or hundredths. 2. Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$. 3. Compare numbers with the same number of decimal places up to 2 decimal places. 4. Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths. 5. Recognise and write decimal equivalents of any number of tenths or hundredths.
Year 4	Using measures	1. Convert between different units of measure [for example, kilometre to metre; hour to minute]. 2. Estimate, compare and calculate different measures
Year 4	Money	1. Estimate, compare and calculate different measures, including money in pounds and pence.
Year 4	Time	1. Read, write and convert time between analogue and digital 12 and 24-hour clocks. 2. Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. 3. Compare durations of events (e.g., calculate the time taken by particular events or tasks)
Year 4	Perimeter, area and volume	1. Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres 2. Find the area of rectilinear shapes by counting squares.

Year 4	Properties of shape	1. Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. 2. Identify lines of symmetry in 2D shapes presented in different orientations; complete a simple symmetric figure with respect to a specific line of symmetry 3. Identify acute and obtuse angles and compare and order angles up to two right angles by size.
Year 4	Position and Direction	1. Describe positions on a 2D grid as coordinates in the first quadrant; plot specific points and draw sides to complete a given polygon 2. Describe movements between positions as translations of a given unit to the left/right and up/down.
Year 4	Present, interpret and solve problems	1. Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. 2. Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.