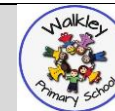


YEAR 3 MATHS CRUCIAL LEARNING



Year 3	Place Value	1. Count from 0 in multiples of 4,8,50 and 100; find 10 or 100 more or less than a given number 2. Identify, represent and estimate numbers using different representations 3. Read and write numbers up to 1000 in numerals and in words 4. Recognise the place value of each digit in a three-digit number 5. Compare and order numbers up to 1000
Year 3	Addition and Subtraction	1. Estimate the calculation and use inverse operations to check 2. "Add and subtract numbers mentally including: - a 3 digit number and ones - a 3 digit number and tens - a 3 digit number and hundreds" 3. Add and subtract numbers with up to 3 digits using formal written methods of columnar addition and subtraction 4. Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction
Year 3	Multiplication and division	1. Recall and use multiplication and division facts for the 3,4 and 8 multiplication tables 2. Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including 2-digit numbers times one-digit numbers, using mental and progressing to formal written methods 3. Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which 'n' objects are connected to 'm' objects
Year 3	Fractions	1. Count up or down in tenths; recognise that tenths arise from dividing an object in to 10 equal parts and in dividing one-digit numbers or quantities by 10 2. Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators 3. Recognise and show using diagrams, equivalent fractions with small denominators 4. Compare and order unit fractions and fractions with the same denominators 5. Add and subtract fractions with the same denominator within one whole (e.g., $5/7 + 1/7 = 6/7$)
Year 3	Algebra	1. Solve problems including missing number problems
Year 3	Using measures	1. Measure, compare, add and subtract; lengths (m/cm/m); mass (kg/g); volume/capacity (l/ml)
Year 3	Money	1. Add and subtract amounts of money to give change, using both £ and p in practical contexts
Year 3	Time	1. Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12 hour and 24-hour clocks 2. Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon and midnight 3. Compare durations of events (e.g., calculate the time taken by particular events or tasks)

Year 3	Perimeter, area and volume	1. Measure the perimeter of simple 2D shapes
Year 3	Properties of shape	1. Draw 2D shapes 2. Make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them 3. Recognise angles as a property of shape or a description of a turn 4. Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle
Year 3	Present, interpret and solve problems	1. Interpret and present data using bar charts, pictograms and tables 2. Solve one and two step questions (e.g., how many more? How many fewer?) using information presented in scaled bar charts and pictograms and tables