

Cookridge Primary School: Year 5 Objectives - Mathematics

Basic Skills (Fluency) by the end of Year 5:	Baseline	Aut 2	Spr 1	Spr 2	Sum 1	Final
1. Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit .						
2. Read, write, order and compare numbers with up to three decimal places .						
3. Recap on number bonds and bridging through any given numbers .						
4. Recall multiplication and division facts for multiplication tables up to 12×12 .						
5. Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 and those numbers with decimals .						
6. Recall Mathematical facts and vocabulary related to mathematical understanding e.g. Measure – $1\text{Km}=1000\text{m}$, Geometry – identify: angles at a point and one whole turn (total 360°), angles at a point on a straight line and 2 1 a turn (total 180°), other multiples of 90° .						
Key Learning for Secure	Baseline	Aut 2	Spr 1	Spr 2	Sum 1	Final
Place Value						
1. Count through 0 both forwards and backwards, including decimals and negative numbers.						
2. Read roman numerals to 1000.						
3. Solve number problems and practical problems involving the basic skills (Fluency).						
Addition and Subtraction (Teach inverse e.g. $7+3=10/10-7=3$)						
4. Add and subtract numbers with more than 4 digits using the formal written methods of columnar addition and subtraction where appropriate.						
5. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.						
Multiplication and Division (Teach inverse e.g. $2 \times 5 = 10 / 10 \div 2 = 5$)						
6. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 .						
7. Recognise and use square numbers and cube numbers.						
8. Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method .						
9. Divide numbers up to 4 digits by a one-digit number using the formal written method of short division.						
Fractions (Decimals)						
10. Compare, order and add fractions with the same denominator or denominators that are multiples of the same number.						
11. Recognise mixed numbers and improper fractions and convert from one form to the other.						
12. Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.						
13. Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$ $\frac{1}{4}$ $\frac{2}{5}$ $\frac{4}{5}$.						
Measurement (Every half term)						
M1 – Measure and calculate the perimeter and area of composite rectilinear shapes in cms and ms.						
M2 – Estimate volume and capacity.						
Geometry (Every half term)						
G1 – Identify 3-D shapes, including cubes and other cuboids, from 2-D representations, distinguishing 2D regular and irregular polygons.						
G2 - Draw given angles, and measure them in degrees ($^\circ$) and recognise those that are acute , obtuse and reflex angles.						
Statistics						
S1 – Complete, read and interpret information in tables, graphs and charts using and applying the basic fluency skills.						

Estimate the answer to a problem or calculation and use inverse operation to check.