MATHEMATICS ASSESSMENT RECORD

YEAR 3

Number and Place Value	Introduction		Independence		Application	Mastery	Surpassing
Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number							
Recognise the place value of each digit in a 3-digit number (100s, 10s, 1s)							
Compare and order numbers up to 1,000							
Identify, represent and estimate numbers using different representations							
Read and write numbers up to 1,000 in numerals and in words							
Solve number problems and practical problems involving these ideas							
Addition and Subtraction							
Add and subtract numbers mentally, including:							
• a three-digit number and 1s							
• a three-digit number and 10s							
• a three-digit number and 100s							
Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction							
Estimate the answer to a calculation and use inverse operations to check answers							
Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction							
Multiplication and Division							
Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables							
Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods							
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							
Fractions							
Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10							
Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators							
Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators							
Recognise and show, using diagrams, equivalent fractions with small denominators							
Add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7]							
Compare and order unit fractions, and fractions with the same denominators							
Solve problems that involve all of the above							
Measurement							
Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)							
Add and subtract amounts of money to give change, using both £ and p in practical contexts							
Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks							
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, am/pm, morning, afternoon, noon and midnight							
Know the number of seconds in a minute and the number of days in each month, year and leap year							
Compare durations of events [for example, to calculate the time taken by particular events or tasks]							
Measure the perimeter of simple 2-D shapes							
Properties of Shape							

Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them						
Recognise angles as a property of shape or a description of a turn						
Identify horizontal and vertical lines and pairs of perpendicular and parallel lines						
Statistics						
Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs						
Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs						
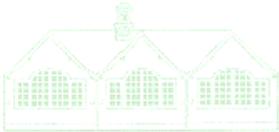
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