



Maths – Year 3

PLACE VALUE			
Pupils should be taught to: <ul style="list-style-type: none"> * count from zero in multiples of 4, 8, 50 & 100 * find 10 or 100 more or 10 less than a given number * recognise the place value of each digit in a 3-digit number (i.e. hundreds, tens, ones) <ul style="list-style-type: none"> * compare & order numbers up to 1 000 * identify, represent & estimate numbers using different representations <ul style="list-style-type: none"> * read & write numbers up to 1 000 in numerals & in words * solve number problems & practical problems involving these ideas. 			
FLUENCY	REASONING & PROBLEM SOLVING	TEST %	TEACHER ASSESSMENT BEST FIT

ADDITION & SUBTRACTION			
Pupils should be taught to: <ul style="list-style-type: none"> * add & subtract numbers mentally, including: a 3-digit number and ones, a 3-digit number and tens, a 3-digit number & hundreds * add & subtract numbers with up to three digits, using formal written methods of columnar addition & subtraction <ul style="list-style-type: none"> * estimate the answer to a calculation & use inverse operations to check answers * solve problems, including missing number problems, using number facts, place value & more complex addition & subtraction. 			
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MULTIPLICATION & DIVISION			
Pupils should be taught to: <ul style="list-style-type: none"> * recall & use multiplication & division facts for the 3, 4 & 8 multiplication tables * write & calculate mathematical statements for multiplication & division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental & progressing to formal written methods * solve problems, including missing number problems, involving multiplication & division, including positive integer scaling problems & correspondence problems in which n objects are connected to m objects. 			
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FRACTIONS			
Pupils should be taught to: <ul style="list-style-type: none"> * count up & down in tenths * recognise that tenths arise from dividing an object into ten equal parts & in dividing 1-digit numbers or quantities by 10 * recognise, find & write fractions of a discrete set of objects: unit fractions & non-unit fractions with small denominators <ul style="list-style-type: none"> * recognise & use fractions as numbers: unit fractions & non-unit fractions with small denominators <ul style="list-style-type: none"> * recognise & show, using diagrams, equivalent fractions with small denominators * add & subtract fractions with the same denominator within one whole (e.g. $5/7 + 1/7 = 6/7$) <ul style="list-style-type: none"> * compare & order unit fractions, & fractions with the same denominators * solve problems that involve all of the above. 			
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MEASUREMENT

Pupils should be taught to:

- * measure, compare, add & subtract: lengths (m, cm, mm), mass (kg, g), volume / capacity (l, ml)
 - * measure the perimeter of simple 2-D shapes
- * add & subtract amounts of money to give change, using both £ & p in practical contexts
- * tell & write the time from an analogue clock, including using Roman numerals I to XII, & 12-hour & 24-hour clocks
 - * estimate & read time with increasing accuracy to the nearest minute
 - * record & compare time in terms of seconds, minutes & hours
 - * use vocabulary such as a.m., p.m., morning, afternoon, noon & midnight
- * know the number of seconds in a minute, & the number of days in each month, year & leap year
 - * compare durations of events (e.g. calculate time taken by particular events or tasks).

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GEOMETRY

Pupils should be taught to:

- * draw 2-D shapes & make 3-D shapes using modelling materials
- * recognise 3-D shapes in different orientations & describe them
- * recognise angles as a property of shape or a description of a turn
- * identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn & four a complete turn
 - * identify whether angles are greater than or less than a right angle
 - * identify horizontal & vertical lines & pairs of perpendicular & parallel lines.

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STATISTICS

Pupils should be taught to:

- * interpret & present data using bar charts, pictograms & tables
- * solve one-step & two-step questions (e.g. How many more? How many fewer?), using information presented in scaled bar charts, pictograms & tables.

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