Mathematics expectations
Year 3

Name: _____

Number and Place Value

Read and write numbers to 1,000 in numerals			
Read and write numbers to 1,000 in words			
Compare and order numbers to 1,000			
Count in multiples of 4 and 8 from 0			
Count in multiples of 50 and 100 from 0			
Find 10 or 100 more or less than a given number			
Identify, represent and estimate numbers using different representations			
Recognise the place value of each digit in 3-digit numbers			

Addition and Subtraction

Add and subtract mentally a 3-digit number and ones			
Add and subtract mentally a 3-digit number and tens			
Add and subtract mentally a 3-digit number and hundreds			
Add numbers with up to 3-digits using formal written methods			
Subtract numbers with up to 3-digits using formal written methods			
Recall doubles of all numbers to 100 with units digits 5 or less, and corresponding halves (E.g. Double 43, double 72, half of 46)			
Estimate the answer to a calculation			
Use the inverse to check calculations			
Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction			

Multiplication and Division

Recall and use multiplication facts for 3 times tables verbally and in written form			
Recall and use division facts for 3 times tables verbally and in written form			
Recall and use multiplication facts for 4 times tables verbally and in written form			
Recall and use division facts for 4 times tables verbally and in written form			
Recall and use multiplication facts for 8 times tables verbally and in written form			
Recall and use division facts for 8 times tables verbally and in written form			
Write and calculate mathematical statements for multiplication and division using multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, progressing to formal written methods			
Solve problems, including missing number problems, that involve multiplication and division, in a range of contexts			

Fractions

Count up and down in tenths			
Recognise that tenths arise from dividing an object into ten equal parts and in dividing 1-digit numbers or quantities by 10			
Recognise, find and write fractions of shapes and a discrete set of objects using unit and non-unit fractions			
Recognise, find and write fractions of numbers using unit and non-unit fractions			
Recognise and show, using diagrams, equivalent fractions with small denominators			
Add and subtract fractions with the same denominator within one whole ($\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$)			
Compare and order unit fractions			
Compare and order fractions with the same denominators			
Solve fraction problems in a range of contexts			

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Name: _____

Measurement

Measure and compare length in any direction (m/cm/mm)			
Add and subtract length (m/cm/mm)			
Measure and compare mass (kg/g)			
Add and subtract mass (kg/g)			
Measure and compare volume/capacity (l/ml)			
Add and subtract volume/capacity (l/ml)			
Measure the perimeter of simple 2-D shapes			
Add and subtract amounts of money to give change, using both £ and p in practical contexts			
Tell and write the time to the nearest minute from an analogue clock on a 12-hour clock			
Tell and write the time to the nearest minute from an analogue clock on a 24-hour clock			
Tell and write the time using Roman numerals I to XII			
Record and compare time in seconds, minutes and hours			
Use specific 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			

Geometry: Shape

Draw 2-D shapes			
Make 3-D shapes using modelling materials			
Recognise 3-D shapes in different orientations and describe their properties			
Recognise angles as a property of a shape or a description of a turn			
Identify right angles; compare other angles to being greater or smaller than a right angle			
Identify horizontal and vertical lines			
Identify pairs of parallel and perpendicular lines			

Geometry: Position and Direction

Recognise that two right angles make a half-turn, three make three-quarters of a turn and four a complete turn			

Statistics

Interpret data using bar charts, pictograms and tables to solve one-step problems			
Interpret data using bar charts, pictograms and tables to solve two-step problems			
Present data using bar charts, pictograms and tables			

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Greater Depth

Independently and consistently apply skills and knowledge in all areas of the year group expectations			
Show a high level of fluency, confidence and resilience when faced with more challenging and complex problems			
Apply skills and knowledge to a range of contexts across the curriculum			
Organise ideas to make connections with other areas of learning in mathematics and across the curriculum			
Return to an aspect of mathematical learning after a break and still feel confident that they can apply skills and knowledge without difficulty			
Explain their understanding of mathematical concepts, skills and knowledge to others			