Mathematics expectations
Year 2

Name: _____

Number and Place Value

Read and write to at least 100 in numerals			
Read and write to at least 100 in words			
Recognise odd and even numbers			
Count in steps of 2, 3, 5 from zero			
Count forwards and backwards in tens from any number			
Recognise the place value of each digit in 2-digit numbers			
Partition 2-digit numbers into different combinations of tens and ones			
Identify, represent and estimate numbers using different representations, including a number line			
Compare and order numbers from 0 to 100 using <, > and = signs			

Multiplication and Division

Recall and use multiplication facts for 2 times tables verbally and in written form			
Recall and use division facts for 2 times tables verbally and in written form			
Recall and use multiplication facts for 10 times tables verbally and in written form			
Recall and use division facts for 10 times tables verbally and in written form			
Recall and use multiplication facts for 5 times tables verbally and in written form			
Recall and use division facts for 5 times tables verbally and in written form			
Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot			
Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and known facts, including problems in a range of contexts			

Addition and Subtraction

Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100			
Add two 2-digit numbers			
Subtract two 2-digit numbers			
Add two 2-digit numbers mentally			
Subtract two 2-digit numbers mentally			
Recall all doubles and halves from double 1 to double 20 / half of 2 to half of 40 (E.g. double 17=34, half of 28 = 14)			
Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot			
Recognise the inverse relationship between addition and subtraction			
Use the inverse to check calculations and solve missing number problems			

Fractions

Recognise and name the fractions $1/3$, $1/4$. $2/4$ and $3/4$ in length, shape, sets of objects or quantity			
Find fractional values of shapes			
Find fractional values of lengths, sets of objects or quantity			
Write simple fractions, for example ½ of 6 = 3			
Recognise the equivalence of $2/4$ and ½			

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Measurement

Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm)			
Choose and use appropriate standard units to estimate and measure mass (kg/g)			
Choose and use appropriate standard units to estimate and measure temperature (°C)			
Choose and use appropriate standard units to estimate and measure capacity (litres/ml)			
Compare and order lengths, mass, volume/capacity and record the results using >, < and =			
Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change			
Recognise and use the symbols for pounds (£) and pence (p) and combine amounts to make a particular value			
Find different combinations of coins that equal the same amounts of money			
Tell and write the time to 5 minutes, including quarter past/to the hour			
Draw hands on a clock face to show the time			
Know how many minutes in a hour and hours in a day			

Geometry: Shape

Identify and describe the properties of 2D shapes including the number of sides and lines of symmetry			
Identify and describe the properties of 3D shapes including edges, vertices and faces			
Identify 2D shapes on the surface of 3D shapes			
Compare and sort common 2D and 3D shapes and everyday objects			

Geometry: Position and Direction

Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line			
Recognise quarter, half and three-quarter turns (clockwise and anti-clockwise)			
Link quarter, half and three-quarter turns to right angles			

Statistics

Interpret and construct simple pictograms, tally charts, block diagrams and simple tables			
Ask and answer questions about data within pictograms, tally charts, block diagrams and simple 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			