Key Learning in Mathematics – Year 2

Number – number and place value	Number – addition and subtraction	Number – multiplication and division	
 Number – number and place value Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward Read and write numbers to at least 100 in numerals and in words Recognise the place value of each digit in a two-digit number (tens, ones) Identify, represent and estimate numbers using different representations, including the number line Partition numbers in different ways (e.g. 23 = 20 + 3 and 23 = 10 + 13) Compare and order numbers from 0 up to 100; use <, > and = signs Find 1 or 10 more or less than a given number Round numbers to at least 100 to the nearest 10 Understand the connection between the 10 multiplication table and place value Describe and extend simple sequences involving counting on or back in different steps Use place value and number facts to solve problems 	 Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting) Select a mental strategy appropriate for the numbers involved in the calculation Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot Understand subtraction as take away and difference (how many more, how many less/fewer) Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Recall and use number bonds for multiples of 5 totalling 60 (to support telling time to nearest 5 minutes) Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones a two-digit numbers adding three one-digit numbers Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems Solve problems with addition and subtraction <i>including with missing numbers</i>: using concrete objects and pictorial representations, including those 	 Number – multiplication and division Understand multiplication as repeated addition Understand division as sharing and grouping and that a division calculation can have a remainder Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers Derive and use doubles of simple two-digit numbers (numbers in which the ones total less than 10) Derive and use halves of simple two-digit even numbers (numbers in which the tens are even) Calculate mathematical statements for multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs Solve problems involving multiplication and division facts, including problems in contexts 	
 Understand and use the terms numerator and denominator Understand that a fraction can describe part of a set Understand that the larger the denominator is, the more pieces it is split into and therefore the smaller each part will be Recognise, find, name and write fractions ¹/₃, ¹/₄, ²/₄ and ³/₄ of a length, shape, set of objects or quantity Write simple fractions for example, ¹/₂ of 6 = 3 and recognise the equivalence of ²/₄ and ¹/₂ Count on and back in steps of ¹/₂ and ¹/₄ 	involving numbers, quantities and measures - applying their increasing knowledge of mental and written methods	Measurement	
	 Geometry – properties of shapes Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] Geometry – position and direction Order/arrange combinations of mathematical objects in patterns/sequences Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise) Statistics Compare and sort objects, numbers and common 2-D and 3-D shapes and everyday objects 	 appropriate unit, using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, volume/capacity and record the results using >, < and = Recognise and use symbols for pounds (£) and pence (p) Combine amounts to make a particular value Find different combinations of coins that equal the same amounts of money Compare and sequence intervals of time Tell and write the time to five minutes, including quarter past/t the hour and draw the hands on a clock face to show these times Know the number of minutes in an hour and the number of hours in a day 	
length, shape, set of objects or quantity • Write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$	 sides and line symmetry in a vertical line Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] Geometry – position and direction Order/arrange combinations of mathematical objects in patterns/sequences Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise) Statistics Compare and sort objects, numbers and common 2-D and 3-D shapes and 	 temperature (°C); capacity and volume (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, volume/capacity and record the results using >, < and = Recognise and use symbols for pounds (£) and pence (p) Combine amounts to make a particular value Find different combinations of coins that equal the same amounts of money Compare and sequence intervals of time Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times Know the number of minutes in an hour and the number of hours in a day Solve simple problems in a practical context involving addition 	

Red Rose Mastery Maths Scheme: Year 2 Yearly Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Week 1	Unit 1 Place Value	Unit 5 Counting, Multiplication and Sorting	Unit 11 Place Value	Unit 16 Length	Unit 21 Place Value and Statistics	Unit 28 Addition and Subtraction
Week 2		Unit 6 Statistics	Unit 12 Mass and Volume and Capacity	Unit 17 Addition and Subtraction	Unit 22 Addition and Subtraction	Unit 29 Multiplication and Division
Week 3	Unit 2 Length and Mass	Unit 7 Fractions	Unit 13 Addition and Subtraction	Unit 18 2-D and 3-D Shape	Unit 23 Capacity and Volume Unit 24 Temperature	Unit 30 Statistics and Calculation
Week 4	Unit 3 Addition and	Unit 8 Capacity and Volume Unit 9 Money	Unit 14 Money	Unit 19 Fractions and Position & Direction	Unit 25 Fractions	Unit 31 Measurement
Week 5	Subtraction	Unit 10 Time	Unit 15	Unit 20 Time	Unit 26 Position & Direction and Time	Assess and review
Week 6	Unit 4 2-D and 3-D Shape	Assess and review week	Multiplication and Division	Assess and review week	Unit 27 2-D and 3-D Shape	then address significant gaps