



Term	Maths Topics and Learning Objectives					
	Number, Place Value and Rounding	Calculations (addition and subtraction with a focus on FLUENCY)				
	 Year 2 Number & Place Value (within 100) count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward 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 compare and order numbers from 0 up to 100; use <, > and = signs read and write numbers to at least 100 in numerals and in words use place value and number facts to solve problems. 	Year 2 Addition & Subtraction (up to 100) • solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures • applying increasing knowledge of mental and written methods • recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 • add and subtract numbers using concrete objects, pictorial representations, and mentally, including: • a two-digit number and ones • a two-digit number and tens • two two-digit numbers • adding three one-digit numbers • two two-digit numbers with regrouping • show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.				
Autumn	Geometry – Properties of Shapes Year 2 • 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]	Measurement (Money) Year 2 • 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 • solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change				
	 BASIC SKILLS (Rehearsed orally, through practical activities and recorded in basic skills exercise books with Name and order the days of the week Name and order the months of the year. Read numbers up to 100. Subitise quantities up to 20. Recall and write number bonds to 20. Verbally count to 100 starting at any number. Verbally count backwards from and to a given number (up to 100). Compare quantities up to 20 (recognise when one quantity is greater than, less than or the same Recall doubles of numbers up to 10 + 10. Recall halves of even numbers (up to half of 20). 	hen appropriate): ne as the other quantity).				

Autumn Term 1 KIRFs:

Count in steps of 2 from a given number up to 100.

Autumn Term 2 KIRFs:

Count in steps of 5 (from a given multiple of 5) up to 100.

Ongoing KIRF:

Tell the time to quarter past/to the hour.

Fractions	Calculations (addition and subtraction with a focus on	Calculations (multiplication and division with a focus on FLUENCY)
Year 2	REASONING AND PROBLEM SOLVING)	Year 2
 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. 	 Year 2 Addition & Subtraction (within 100) solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones a two-digit number and tens two two-digit numbers show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. 	 Multiplication & Division recognise and begin to recall multiplication and division facts for the 2, 5 and 10 multiplication tables calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs 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 multiplication and division facts, including problems in contexts
Measurement: Length, height and capacity		

Year 2: Reading Scales

Spring

• read intervals on scales (such as rulers and weighing scales)

Measurement – Length and Height

• choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm) to the nearest appropriate unit, using rulers, scales in 1s, 2s,5s and 10s compare and order lengths, record the results using >, < and =

<u>Measurement – Weight</u>

- choose and use appropriate standard units to estimate and measure mass (kg/g) to the nearest appropriate unit, using scales and balances
- compare and order mass and record the results using >, < and =

Measurement – Capacity

- choose and use appropriate standard units to estimate and measure capacity (I/mI) to the nearest appropriate unit, using bottles, measuring jugs and measuring cylinders
- compare and order capacity and record the results using >, < and =

BASIC SKILLS (rehearsed orally, through practical activities and recorded in basic skills exercise books when appropriate):

- Verbally count to and across 50, starting at any number.
- Verbally count backwards from 100 in steps of 1 and 2.
- Compare quantities up to 50 (recognise when one quantity is greater than, less than or the same as the other quantity).
- Recall and write number bonds to .
- Recall 1 more and 10 more, and 1 less and 10 less of numbers up to 100 (mentally).
- Add and subtract up to 50 (mentally).

Spring Term 1 KIRFs:

Recall doubles of even numbers up to 20.

Spring Term 2 KIRFs:

Recall halves of even numbers up to 20.

Ongoing KIRF:

Tell the time to quarter past/to the hour.

Measurement: Time	Calculations (addition and subtraction focus on FLUENCY with	Calculations (multiplication and division with a focus on		
	moving towards REASONING and PROBLEM SOLVING as appropriate)	REASONING AND PROBLEM SOLVING)		
Year 2				
<u>Time</u>	Year 2	Year 2		
compare and sequence intervals of time	Addition & Subtraction (3-digit numbers)	Multiplication & Division		
• tell and write the time to five minutes, including quarter	 solve problems with addition and subtraction: 	• recall and use multiplication and division facts for the		
past/to the hour and draw the hands on a clock face to show	 using concrete objects and pictorial representations, including 	2, 5 and 10 multiplication tables, including		
these times	those involving numbers, quantities and measures	recognising odd and even numbers		
know the number of minutes in an hour and the number of	 applying their increasing knowledge of mental and written 	calculate mathematical statements for multiplication		
hours in a day.	methods	and division within the multiplication tables and		
	 recall and use addition and subtraction facts to 20 fluently, and 	write them using the multiplication (×), division (÷)		
	derive and use related facts up to 100	and equals (=) signs		
	 add and subtract numbers using concrete objects, pictorial 	 show that multiplication of two numbers can be denoted any order (commutative) and division of one 		
	representations, and mentally, including:	number by another cannot		
	 a two-digit number and ones a two-digit number and tags 	solve problems involving multiplication and division		
	- a two-digit number and tens	• Solve problems involving multiplication and division,		
	- two two-algit numbers	methods and multiplication and division facts		
	 adding three one-digit numbers show that addition of two numbers can be done in any order 	including problems in contexts.		
	 Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another 			
	(commutative) and subtraction of one number from another			
	 recognise and use the inverse relationship between addition and 			
	subtraction and use this to check calculations and solve missing			
	number problems			
Geometry		<u>Statistics</u>		
Year 2	Year 2			
Position & Direction	<u>Charts</u>	<u>Charts</u>		
 order and arrange combinations of mathematical objects in pat 	erns and sequences • interpret and construct simple pictogra	 interpret and construct simple pictograms, tally charts, block diagrams and simple tables 		
use mathematical vocabulary to describe position, direction and	movement, including • ask and answer simple questions by co	ask and answer simple questions by counting the number of objects in each category and sorting		
 movement in a straight line and distinguishing between rotation 	as a turn and in terms the categories by quantity	the categories by quantity		
 of right angles for quarter, half and three-quarter turns (clockw) 	se and anti-clockwise). • ask and answer questions about totallin	 ask and answer questions about totalling and comparing categorical data. 		
BASIC SKILLS (rehearsed orally, through practical activities and recorded in basic skills exercise books when appropriate):				

- Verbally count to and across to 100 starting at any number.
- Verbally count backwards from 100 in steps of 2, 5 and 10.
- Read and write numbers from 1 100 in words.
- Recognise odd and even numbers.

Summer

• Name and recognise basic properties of 2-D and 3-D shapes.

