MATHS LONG TERM PLAN – YEAR 2

Autumn 1	**Number and Place Value**		**Addition and Subtraction**		
	- Count in steps of 2, 3, and 5 from 0, and in tens from any number - Recognise the place value of each digit in a two-digit number (10s, 1s) - 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		- 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; adding three one-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		
Autumn 2	**Properties of Shape**	**Multiplication and Division**	**Money**	**Assessment**	**Time**
	- Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line - Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces - Identify 2D shapes on the surface of 3D shapes [for example, a circle on a cylinder and a triangle on a pyramid] - Compare and sort common 2D and 3D shapes and everyday objects	- Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers - Show that multiplication of two numbers can be done in any order and division of one number by another cannot	- 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	- NTS Assessments - Investigations (Nrich, etc)	- 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

Spring 1	**Addition and Subtraction**		**Number and Place Value**	**Position and Direction**	**Multiplication and Division**
	- 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; adding three one-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		- Count in steps of 2, 3, and 5 from 0, and in tens from any number - Recognise the place value of each digit in a two-digit number - 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	- Order and arrange combinations of mathematical objects in patterns and 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)	- Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers - Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs - Show that multiplication of two numbers can be done in any order (communicative) 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
Spring 2	**Time**	**Fractions**		**Statistics**	**Assessment**	**Properties of Shape**
	- 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	- 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 and recognise the equivalence of 2/4 and 1/2		- Interpret and construct simple pictograms, tally charts, block diagrams and simple tables - Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity - Ask and answer questions about totalling and comparing categorical data	- NTS Assessments - Investigations (Nrich, etc)	- Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line - Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces - Identify 2D shapes on the surface of 3D shapes - Compare and sort common 2D and 3D shapes and everyday objects

	Addition and Subtraction	Measurement	Multiplication and Division	Position and Direction & Properties of Shape
Summer 1	- 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; adding three one-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	- Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (˚C); capacity (l/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 =	- Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers - Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs - Show that multiplication of two numbers can be done in any order (communicative) 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	- Order and arrange combinations of mathematical objects in patterns and 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) - Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line - Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces - Identify 2D shapes on the surface of 3D shapes - Compare and sort common 2D and 3D shapes and everyday objects

	Money	Time	Fractions	Statistics	Assessment	Measurement
Summer 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	- 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	- 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 and recognise the equivalence of 2/4 and 1/2	- Interpret and construct simple pictograms, tally charts, block diagrams and simple tables - Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity - Ask and answer questions about totalling and comparing categorical data	- NTS Assessments - Investigations (Nrich, etc)	- Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (l/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 = - mass /weight - capacity and volume