MATHS LONG TERM PLAN – YEAR 3

Autumn 1	**Number and Place Value**		**Addition and Subtraction**		
	- Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number - Recognise the place value of each digit in a three-digit number (100s, 10s and 1s) - Compare and order numbers up to 1000 - Identify, represent and estimate numbers using different representations - Read and write numbers up to 1000 in numerals and in words - Solve number problems and practical problems involving these ideas		- Add and subtract numbers mentally including a three-digit number and 1s; a three-digit number and 10s; a three-digit number and 100s - Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction - Estimate the answer to a calculation and use inverse operations to check answers - Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction		
Autumn 2	**Properties of Shape**	**Multiplication and Division**	**Money**	**Assessment**	**Time**
	- Draw 2D shapes and make 3D shapes using modelling materials; Recognise 3D shapes in different orientations and describe them - Recognise angles as a property of shape or a description of a turn - Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle - Identify horizontal and vertical lines and pairs of perpendicular and parallel lines	- Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables - Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods - Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects	- Add and subtract amounts of money to give change, using both £ and pence in practical contexts	- NTS Assessments - Investigations (Nrich, etc)	- Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks - Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as 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 [for example, calculate the time taken by particular tasks or events]

Spring 1	**Addition and Subtraction**		**Number and Place Value**	**Measurement**	**Multiplication and Division**
	- Add and subtract numbers mentally including a three-digit number and 1s; a three-digit number and 10s; a three-digit number and 100s - Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction - Estimate the answer to a calculation and use inverse operations to check answers - Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction		- Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number - Recognise the place value of each digit in a three-digit number (100s, 10s and 1s) - Compare and order numbers up to 1000 - Identify, represent and estimate numbers using different representations - Read and write numbers up to 1000 in numerals and in words - Solve number problems and practical problems involving these ideas	- Measure, compare, add and subtract: lengths; mass; volume/capacity - Measure the perimeter of simple 2-D shapes	- Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables - Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods - Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects
Spring 2	**Time**	**Fractions**		**Statistics**	**Assessment**	**Properties of Shape**
	- Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks - Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as 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	- Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 - Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators - Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators - Recognise and show, using diagrams, equivalent fractions with small denominators - Add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7] - Compare and order unit fractions, and fractions with the same denominators - Solve problems that involve all of the above		- Interpret and present data using bar charts, pictograms and tables - Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables	- NTS Assessments - Investigations (Nrich, etc)	- Draw 2D shapes and make 3D shapes using modelling materials; Recognise 3D shapes in different orientations and describe them - Recognise angles as a property of shape or a description of a turn - Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle - Identify horizontal and vertical lines and pairs of perpendicular and parallel lines

Summer 1	**Addition and Subtraction**		**Multiplication and Division**		**Fractions**	
	- Add and subtract numbers mentally including a three-digit number and 1s; a three-digit number and 10s; a three-digit number and 100s - Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction - Estimate the answer to a calculation and use inverse operations to check answers - Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction		- Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables - Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods - Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects		- Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 - Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators - Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators - Recognise and show, using diagrams, equivalent fractions with small denominators - Add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7] - Compare and order unit fractions, and fractions with the same denominators - Solve problems that involve all of the above	
Summer 2	**Time**	**Properties of Shape**	**Money**	**Statistics**	**Assessment**	**Measurement**
	- Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks - Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours - Know the number of seconds in a minute and the number of days in each month, year and leap year - Compare durations of events	- Draw 2D shapes and make 3D shapes using modelling materials; Recognise 3D shapes in different orientations and describe them - Recognise angles as a property of shape or a description of a turn - Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle - Identify horizontal and vertical lines and pairs of perpendicular and parallel lines	- Add and subtract amounts of money to give change, using both £ and pence in practical contexts	- Interpret and present data using bar charts, pictograms and tables - Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables	- NTS Assessments - Investigations (Nrich, etc)	- Measure, compare, add and subtract: lengths; mass; volume/capacity - Measure the perimeter of simple 2-D shapes