



Maths Curriculum Plan Overview

Year 7				
Term	Topic	Learning	How can parents' best support	Key vocabulary
Autumn 1	Data Basic Number Function Machines	Use of questionnaires to collect data and display using charts and tables. 4 operations with positive numbers Function Machines	Practise both mental and written methods of calculations strategies. Practice times tables	Data Tally Total Compare Contrast Equals Addition Subtraction Multiplication Division
Assessment:	<u>Self assessment and topic tests</u>			
Autumn 2	Negative numbers Coordinates Fractions 2D / 3D shapes	Using a number line to add and subtract negative numbers. Coordinates in 4 quadrants. Recognise and use fractions- simplify and find equivalent fractions	Talk about negative numbers in the context of temperature. Use maps to look at grids and the conventions of coordinates in context. Discuss fractions in cooking or sharing out of items.	Negative Axis Plot Graph Quadrant Segment Whole Part Equal Portion Size Regular Irregular Properties Face s

				Sides Vertices
Assessment:	<u>Self assessment and topic tests</u>			
Spring 1	Sequences Measures Decimals Area and perimeter	Generate sequences numerically or with concrete items. Measure real items and choose suitable units to present answers. Understand place value and the concept of decimals. Area and perimeter of regular and irregular shapes.	Estimate and weigh items around the home. Discuss weights and measures of common items. Talk about money as a decimal to 2 decimal places and add and subtract in context. Giving change and checking change will support this area.	Pattern Repeat Visual Area Perimeter Side Inside Outside Centimetre Metre Capacity Litre Millilitre more Less Equal
Assessment:	<u>Self assessment and topic tests</u>			
Spring 2	Symmetry Ratio Percentages Probability	Describe and use line symmetry. Recognise basic ratios as a means of comparing 2 or more items. Understand the likelihood of events happening.	Draw patterns and doodles with symmetry and look at symmetry in building and fabrics. Recognise where percentages are used in everyday life - newspaper articles Play games and discuss probabilities of winning.	Same Symmetry Mirror Reflect Symmetrical Non-Symmetrical Line of symmetry Probability Likelihood Likely Unlikely Certain Impossible
Assessment:	<u>Self assessment and topic tests</u>			

<p>Summer 1</p>	<p>Equations and expressions 2D/3D Angles</p>	<p>Solve equations with one unknown and write expressions for wordy questions. 2D representations of 3D shapes e.g plans and elevations. Estimate, measure and draw angles.</p>	<p>When out and about look at angles in buildings and consider the different views i.e what it looks like from each side and what it would look like from the top (plan)</p>	<p>Equations Linear Expressions Value Algebra Shapes Representations Acute Obtuse Right Angle Reflex Straight Line</p>
<p>Assessment:</p>	<p><u>End of year assessment</u></p>			
<p>Summer 2</p>	<p>Averages Angle rules Fractions of amounts</p>	<p>Calculate mean, median, mode and range of a set of data. Use angle rules to calculate missing angles in shapes. calculate fractions of amounts.</p>	<p>Discuss how averages are used in everyday life by politicians and companies. Find fractions of money and weights in real life situations</p>	<p>Mean Median Mode Range Average Data Representation Amounts Portions Numerator Denominator</p>