

Year 7 – MATHEMATICS Programme of Study

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p>Negative Numbers</p> <ul style="list-style-type: none"> • Four operations <p>Working with Decimals</p> <ul style="list-style-type: none"> • Reading scales • Ordering • Calculations <p>Time</p> <ul style="list-style-type: none"> • Analogue and digital clocks. • Timetables • Converting units of time <p>Area and Perimeter</p> <ul style="list-style-type: none"> • Squares, rectangles, triangles • Compound shapes • Parallelograms and trapezia <p><u>Milestone Assessment:</u> Numeracy</p>	<p>Fractions, Decimals & Percentages</p> <ul style="list-style-type: none"> • Recall equivalencies • Use division to write fraction as decimals • Write percentages as fractions or decimals • Write decimals as fractions or percentages <p>Angles</p> <ul style="list-style-type: none"> • Parallel and perpendicular lines • Types of angles • Measuring and drawing angles • Basic angle rules <p>Algebra</p> <ul style="list-style-type: none"> • Collecting like terms • Multiplying and Dividing algebraic terms • Substitution <p><u>Milestone Assessment:</u> End of term non-calculator</p>	<p>Volume</p> <ul style="list-style-type: none"> • 3D shapes and properties • Volume of cubes and cuboids • Volume of prisms • Solving problems <p>Statistics</p> <ul style="list-style-type: none"> • Data collection • Pictograms • Bar charts • Pie charts <p>Ratio</p> <ul style="list-style-type: none"> • Scale Drawings • Map Scales <p><u>Milestone Assessment:</u> Shape</p>	<p>Co-ordinates</p> <ul style="list-style-type: none"> • Plot and read coordinates • Find the midpoint of 2 coordinates <p>Probability</p> <ul style="list-style-type: none"> • Probability scale • Listing outcomes • Calculating probabilities • Estimating probabilities based on experimental data <p>Equations</p> <ul style="list-style-type: none"> • Solving one and two step linear equations • Forming equations to solve problems <p><u>Milestone Assessment:</u> End of term calculator</p>	<p>Fractions</p> <ul style="list-style-type: none"> • Comparing • Simplifying • Fractions of amounts • Four operations • Calculator Methods <p>Sequences</p> <ul style="list-style-type: none"> • Square, cube and triangular numbers • Generating sequences • Term to term rules • Nth term • Geometric sequences <p>Percentages</p> <ul style="list-style-type: none"> • Percentages of amounts • Percentage increase and decrease <p><u>Milestone Assessment:</u> Algebra</p>	<p>Symmetry</p> <ul style="list-style-type: none"> • Line symmetry • Rotational symmetry <p>Constructions</p> <ul style="list-style-type: none"> • Drawing and measuring lines accurately • Drawing triangles accurately with a protractor • Drawing circles with a compass <p>Problem Solving</p> <p><u>Milestone Assessment:</u> End of year non-calculator</p>