

<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer 1</u>	<u>Summer 2</u>
<p><u>Topics Covered:</u></p> <ul style="list-style-type: none"> ● <u>Angles</u> <ul style="list-style-type: none"> ○ Properties of shape ○ Angles in parallel lines ○ Angles in triangles ○ Exterior and interior angle ○ Geometrical patterns ● <u>Averages and ranges</u> <ul style="list-style-type: none"> ○ Mean and range ○ Mode, median and range ○ Types of averages ○ Estimating the mean ○ Sampling 	<p><u>Topics Covered:</u></p> <ul style="list-style-type: none"> ● <u>Perimeter area and volume 1</u> <ul style="list-style-type: none"> ○ Rectangles, parallelograms and triangles ○ Trapezia and changing units ○ Area of compound shapes ○ Surface area of 3D solids ○ Volume of prisms ○ More volume and surface area ● <u>Graphs</u> <ul style="list-style-type: none"> ○ Coordinates ○ Linear Graphs ○ Gradients ○ $y=mx+c$ ○ Real-life graphs ○ Distance-time graphs ○ More real-life graphs 	<p><u>Topics Covered:</u></p> <ul style="list-style-type: none"> ● <u>Transformation</u> <ul style="list-style-type: none"> ○ Translation ○ Reflection ○ Rotation ○ Enlargement ○ Describing enlargement ○ Combining transformations ● <u>Ratio and Proportion</u> <ul style="list-style-type: none"> ○ Writing ratios ○ Using ratios ○ Ratios and measures ○ Comparing using ratios ○ Using proportion ○ Proportion and graphs ○ Proportion problems 	<p><u>Topics Covered:</u></p> <ul style="list-style-type: none"> ● <u>Right angle triangles</u> <ul style="list-style-type: none"> ○ Pythagoras Theorem ○ Trigonometry: Sine ○ Trigonometry: Cosine ○ Trigonometry: Tangent ○ Finding lengths and angles using trigonometry ● <u>Probability</u> <ul style="list-style-type: none"> ○ Calculating Probability ○ Two events ○ Experimental Probability ○ Venn Diagrams ○ Tree Diagrams 	<p><u>Topics Covered:</u></p> <ul style="list-style-type: none"> ● <u>Multiplicative Reasoning</u> <ul style="list-style-type: none"> ○ Percentages ○ Growth and decay ○ Compound measures ○ Distance, speed and time ○ Direct and inverse proportion ● <u>Construction and loci and bearings</u> <ul style="list-style-type: none"> ○ 3D Solids ○ Plans and elevations ○ Accurate drawings ○ Scale drawings and maps ○ Construction ○ Loci and regions ○ Bearings 	<p><u>Topics Covered:</u></p> <ul style="list-style-type: none"> ● <u>Quadratic Equations and Graphs</u> <ul style="list-style-type: none"> ○ Expanding double brackets ○ Plotting quadratic Graphs ○ Factorising quadratic expressions ○ Solving quadratic equations ● <u>Perimeter area and volume 2</u> <ul style="list-style-type: none"> ○ Circumference of a circle ○ Area of a circle ○ Semicircles and sectors ○ Composite 2D shapes and cylinders ○ Pyramids and cones ○ Spheres and composite solids

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Autumn Term Assessment

Spring Term Assessment

Summer Term Assessment

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<p>Topics Covered:</p> <ul style="list-style-type: none"> ● <u>Graphs</u> <ul style="list-style-type: none"> ○ Linear Graphs ○ Graphing rates of change ○ Real-life Graphs ○ Line segments ○ Quadratic graphs ○ Cubic and reciprocal graphs ● <u>Area and Volume</u> <ul style="list-style-type: none"> ○ Perimeter and area ○ Units and accuracy ○ Prisms ○ Circles ○ Sectors of circles ○ Cylinders and Spheres ○ Pyramids and Cones 	<p>Topics Covered:</p> <ul style="list-style-type: none"> ● <u>Transformation and constructions</u> <ul style="list-style-type: none"> ○ 3D Solids ○ Reflections and rotations ○ Enlargements ○ Combined transformations ○ Bearings and scale drawings ○ Constructions ○ Loci ● <u>Equations and Inequalities</u> <ul style="list-style-type: none"> ○ Solving Quadratic Equations ○ Completing the square ○ Solving linear and quadratic simultaneous equations ○ Solving linear inequalities 	<p>Topics Covered:</p> <ul style="list-style-type: none"> ● <u>Probability</u> <ul style="list-style-type: none"> ○ Combined Events ○ Mutually exclusive events ○ Experimental probability ○ Tree diagrams ○ Conditional probability ○ Venn diagrams and set notation ● <u>Multiplicative Reasoning</u> <ul style="list-style-type: none"> ○ Growth and Decay ○ Compound Measures ○ Ratio and Proportion 	<p>Topics Covered:</p> <ul style="list-style-type: none"> ● <u>Similarity and Congruence</u> <ul style="list-style-type: none"> ○ Congruence ○ Geometric Proof ○ Similarity in 2D and 3D ● <u>Advanced Trigonometry</u> <ul style="list-style-type: none"> ○ Accuracy ○ Graphs of trigonometric functions ○ Calculating areas and the sine rule ○ The cosine rule and 2D trigonometric problems ○ Solving problems in 3D ○ Transforming trigonometric graphs 	<p>Topics Covered:</p> <ul style="list-style-type: none"> ● <u>Advanced Statistics</u> <ul style="list-style-type: none"> ○ Sampling ○ Cumulative Frequency ○ Box Plots ○ Drawing and Interpreting Histograms ○ Comparing and describing populations ● <u>Equations and Graphs</u> <ul style="list-style-type: none"> ○ Solving simultaneous equations ○ Representing inequalities graphically ○ Graphs of quadratic functions ○ Graphs of cubic functions 	<p>Topics Covered:</p> <ul style="list-style-type: none"> ● <u>Circle Theorems</u> <ul style="list-style-type: none"> ○ Radii and Chords ○ Tangents ○ Angles in Circles 1 ○ Angles in Circles 2 ○ Applying Circle Theorems

<u>Assessments:</u> <ul style="list-style-type: none">• Unit 6• Unit 7	<u>Assessments:</u> <ul style="list-style-type: none">• Unit 8• Unit 9	<u>Assessments:</u> <ul style="list-style-type: none">• Unit 10• Unit 11	<u>Assessments:</u> <ul style="list-style-type: none">• Unit 12• Unit 13	<u>Assessments:</u> <ul style="list-style-type: none">• Unit 14• Unit 15	<u>Assessments:</u> <ul style="list-style-type: none">• Unit 16
<u>Autumn Term Assessment</u>		<u>Spring Term Assessment</u>		<u>Summer Term Assessment</u>	

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<p>Topics Covered:</p> <ul style="list-style-type: none"> ● <u>Construction and loci and bearings</u> <ul style="list-style-type: none"> ○ 3D Solids ○ Plans and elevations ○ Accurate drawings ○ Scale drawings and maps ○ Construction ○ Loci and regions ○ Bearings ● <u>Quadratic Equations and Graphs</u> <ul style="list-style-type: none"> ○ Expanding double brackets ○ Plotting quadratic Graphs ○ Factorising quadratic expressions ○ Solving quadratic equations 	<p>Topics Covered:</p> <ul style="list-style-type: none"> ● <u>Perimeter area and volume 2</u> <ul style="list-style-type: none"> ○ Circumference of a circle ○ Area of a circle ○ Semicircles and sectors ○ Composite 2D shapes and cylinders ○ Pyramids and cones ○ Spheres and composite solids ● <u>Fractions, indices and standard form</u> <ul style="list-style-type: none"> ○ Multiplying and Dividing Fractions ○ The laws of indices ○ Writing in standard form ○ Calculating with standard form 	<p>Topics Covered:</p> <ul style="list-style-type: none"> ● <u>Congruence, similarly and vectors</u> <ul style="list-style-type: none"> ○ Similarity and enlargement ○ Using Similarity ○ Congruence ○ Vectors ● <u>Advanced Algebra</u> <ul style="list-style-type: none"> ○ Graphs of cubic and reciprocal functions ○ Solving simultaneous equations graphically and algebraically ○ Rearranging formula ○ Proof 			

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<p>Topics Covered:</p> <ul style="list-style-type: none"> ● <u>Equations and Graphs</u> <ul style="list-style-type: none"> ○ Solving simultaneous equations ○ Representing inequalities graphically ○ Graphs of quadratic functions ○ Graphs of cubic functions ● <u>Circle Theorems</u> <ul style="list-style-type: none"> ○ Radii and Chords ○ Tangents ○ Angles in Circles 1 ○ Angles in Circles 2 ○ Applying Circle Theorems 	<p>Topics Covered:</p> <ul style="list-style-type: none"> ● <u>Advanced Algebra</u> <ul style="list-style-type: none"> ○ Rearranging formula ○ Algebraic fractions ○ Surds ○ Functions ○ Proofs ● <u>Vectors and geometric proof</u> <ul style="list-style-type: none"> ○ Vectors and vector notation ○ Vector arithmetic ○ Parallel vectors and collinear vectors ○ Solving geometric problems 	<p>Topics Covered:</p> <ul style="list-style-type: none"> ● <u>Proportions and Graphs</u> <ul style="list-style-type: none"> ○ Direct Proportion ○ Inverse Proportion ○ Exponential functions ○ Non-linear graphs ○ Translating graphs of functions ○ Reflecting and stretching graphs of functions 	<p>Topics Covered:</p>	<p>Topics Covered:</p>	<p>Topics Covered:</p>
<p>Assessments:</p> <ul style="list-style-type: none"> ● Unit 15 ● Unit 16 	<p>Assessments:</p> <ul style="list-style-type: none"> ● Unit 17 ● Unit 18 	<p>Assessments:</p> <ul style="list-style-type: none"> ● Unit 19 	<p>Assessments:</p>	<p>Assessments:</p>	<p>Assessments:</p>

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