

Year 10 - Higher	Cycle 1	Cycle 2	Cycle 3
<p>Topic:</p> <ul style="list-style-type: none"> Unit 1: Right Angled Triangle Trigonometry Unit 2: Equations, Inequalities and Formulae Unit 3: Proportion Growth and Decay Unit 4: Venn and Tree Diagrams <p>Overview:</p> <ul style="list-style-type: none"> Unit 1 <ul style="list-style-type: none"> Pythagoras Theorem Finding a missing side using Trigonometry Finding a missing angle using Trigonometry Unit 2 <ul style="list-style-type: none"> Solving Inequalities Representing inequalities on a number line Representing inequalities Solving one and two step equations Solving equations with unknowns on both sides Forming and Solving Equations Rearranging Formulae with squares/cubes <p>Unit 3</p> <ul style="list-style-type: none"> Direct Proportion Inverse Proportion Work Problems Percentage Increase/Decrease Compound Growth/Decay <p>Unit 4</p> <ul style="list-style-type: none"> Product rule for counting Frequency Tree Diagrams Tree Diagrams for Dependent and Independent events Venn Diagrams Conditional Probability (Venn Diagrams) <p>Mid-Cycle Assessment:</p> <p>End of Topic Test – Open Book</p> <p>Assessment Week:</p> <p>Unit 1-4 Non-Calculator Paper</p>	<p>Topic:</p> <ul style="list-style-type: none"> Unit 5: Measures and Real Life Graphs Unit 6: Vectors, Transformations and congruence Unit 7: Quadratic and Simultaneous Equations Unit 8: Advanced Trigonometry <p>Overview:</p> <ul style="list-style-type: none"> Unit 5 <ul style="list-style-type: none"> Speed Distance Time Density & Pressure Gradient of Speed-Time Graph & Distance Time Graph Distance travelled from a Speed-Time graph Unit 6 <ul style="list-style-type: none"> Reflection, Rotation, Translation, Enlargement Column Vector Notation Adding and Subtracting Vectors Parallel & Collinear Vectors Similar Shapes Congruent Triangle Proofs Unit 7 <ul style="list-style-type: none"> Plotting quadratic graphs Expanding Double Brackets Expanding Trinomials Solving Quadratics by Factorising Completing the square Quadratic Formula Forming and Solving Quadratic Equations Solving Linear Simultaneous Equations Graphical Simultaneous Equations Unit 8 <ul style="list-style-type: none"> Exact Trig Values 3D Trigonometry and Pythagoras Sine Rule, Cosine Rule Area of a Triangle: $\frac{1}{2}ab \sin C$ <p>Mid-Cycle Assessment:</p> <p>End of Topic Test – Open Book</p> <p>Assessment Week:</p>	<p>Topic:</p> <ul style="list-style-type: none"> Unit 9: Circles, Cylinders, cones and Spheres. Unit 10: Histograms Unit 11: Circle Geometry <p>Overview:</p> <ul style="list-style-type: none"> Unit 9 <ul style="list-style-type: none"> Area and Circumference of a circle Area of a sector Area of segments Arc length Surface Area, Volume of Prism, Cylinder, Cone, Sphere, Pyramid Volume and Surface Area of Frustum Unit 10 <ul style="list-style-type: none"> Averages from a Frequency Table Drawing Histograms Interpreting Histograms Sampling Unit 11 <ul style="list-style-type: none"> Circle Theorems Alternate Segment Theorem Tangent and Chord Circle Theorems <p>Mid-Cycle Assessment:</p> <p>End of Topic Test – Open Book</p> <p>Assessment Week:</p> <p>Year 10 Mock Exams</p>	

	Cycle 1	Cycle 2	Cycle 3
Year 10 - Foundation	<p>Topic:</p> <ul style="list-style-type: none"> Unit 1: Number and Algebra Recap Unit 2: Equations, Inequalities and Formulae Unit 3: Ratio, Proportion Unit 4: Venn and Tree Diagrams <p>Overview:</p> <p>Unit 1</p> <ul style="list-style-type: none"> Add & Subtract Mixed Numbers Percentage of an amount Standard Form Calculations Collecting Like Terms Expanding and Factorising <p>Unit 2</p> <ul style="list-style-type: none"> Solving Inequalities Solving one and two step equations Solving equations with unknowns on both sides Forming and Solving Equations Rearranging Formulae <p>Unit 3</p> <ul style="list-style-type: none"> Equivalent Ratios Share a quantity in a given ratio Unitary Method Direct Proportion Work Problems <p>Unit 4</p> <ul style="list-style-type: none"> Product rule for counting Frequency Tree Diagrams Tree Diagrams for Dependent and Independent events Venn Diagrams <p>Mid-Cycle Assessment: End of Topic Test – Open Book</p> <p>Assessment Week: Unit 1-4 Non-Calculator Paper</p>	<p>Topic:</p> <ul style="list-style-type: none"> Unit 5: Measures and Real Life Graphs Unit 6: Vectors, Transformations and congruence Unit 7: Quadratic and Simultaneous Equations Unit 8: Circles, Cylinders, cones and Spheres <p>Overview:</p> <p>Unit 5</p> <ul style="list-style-type: none"> Speed Distance Time Density & Pressure Best Buy & Rate of Pay Problems Gradients Distance travelled from a Speed-Time graph <p>Unit 6</p> <ul style="list-style-type: none"> Reflection, Rotation, Translation, Enlargement Column Vector Notation Adding and Subtracting Vectors Similar Shapes Congruent Triangles <p>Unit 7</p> <ul style="list-style-type: none"> Plotting quadratic graphs Expanding Double Brackets Factorising Quadratic Expressions Solving Quadratics by Factorising Solving Simultaneous Equations <p>Unit 8</p> <ul style="list-style-type: none"> Area and Circumference of a circle Area of a sector & Arc Length Surface Area, Volume of Prism, Cylinder, Cone, Sphere, Pyramid <p>Mid-Cycle Assessment: End of Topic Test – Open Book</p> <p>Assessment Week: Unit 1-8 Non-Calculator Paper</p>	<p>Topic:</p> <ul style="list-style-type: none"> Unit 9: Averages and Statistical Diagrams Unit 10: Construction and Loci Unit 11: Right Angled Triangles <p>Overview:</p> <p>Unit 9</p> <ul style="list-style-type: none"> Pie Charts Averages from a Frequency Table Scatter Graphs and Correlation <p>Unit 10</p> <ul style="list-style-type: none"> Scale Drawings Bearings Plans and Elevations Constructing Triangles Angle and Line Bisectors Loci <p>Unit 11</p> <ul style="list-style-type: none"> Pythagoras Theorem Finding missing side using Trigonometry Finding missing angle using Trigonometry <p>Mid-Cycle Assessment: End of Topic Test – Open Book</p> <p>Assessment Week: Year 10 Mock Exams</p>

	Cycle 1	Cycle 2	Cycle 3
Year 11 -Higher	<p>Topic:</p> <ul style="list-style-type: none"> Unit 1: Circles and Tangents Unit 2: Sequences & Non-Linear Simultaneous Equations Unit 3: Further Algebra Unit 4: Non Linear Graphs <p>Overview:</p> <p>Unit 1</p> <ul style="list-style-type: none"> $y = mx + c$ revision Equation of a line through a point Equation of a line through two points Parallel and Perpendicular Lines Equation of a circle Equation of a tangent to a circle <p>Unit 2</p> <ul style="list-style-type: none"> Solving Non-Linear Simultaneous Equations Quadratic Sequences Fibonacci and Geometric Sequences Iteration <p>Unit 3</p> <ul style="list-style-type: none"> Factorising $ax^2 + bx + c$ where $a > 1$ Adding/Subtracting/Multiplying/Dividing Algebraic Fractions Solving equation involving algebraic fractions. Using Functions Composing Functions, Inverse Functions Algebraic Proof Quadratic Inequalities <p>Unit 4</p> <ul style="list-style-type: none"> Revise Plotting Quadratic Graphs Finding the turning point graphically and by completing the square Sketching Quadratic Functions Cubic, Reciprocal, Trig Graphs Transformations of Functions <p>Mid-Cycle Assessment: End of Topic Test – Open Book</p>	<p>Topic:</p> <ul style="list-style-type: none"> Unit 5: Revise: Number & Algebra Unit 6: Revise: Geometry Unit 7: Revise: Statistics & Probability <p>Overview:</p> <p>Unit 5</p> <ul style="list-style-type: none"> Surds & Indices Irrational Numbers to fractions Quadratic Equations Simultaneous Equations <p>Unit 6</p> <ul style="list-style-type: none"> RA Trigonometry Sine and Cosine Rule Exact Trig Values Parallel Line Angle Facts Exterior/Interior Angles Area, Perimeter, Volume. Similar Shapes & Congruent Shapes Loci and Constructions <p>Unit 7</p> <ul style="list-style-type: none"> Cumulative Frequency Diagrams Box Plots Averages from a frequency table Histograms Tree Diagrams Venn Diagrams <p>Mid-Cycle Assessment: Sections of GCSE Papers</p> <p>Assessment Week: Year 11 March Mock Exams</p>	<p>Topic:</p> <ul style="list-style-type: none"> Unit 8: Revise: Ratio, Proportion and Rates of Change <p>Overview:</p> <p>Unit 9</p> <ul style="list-style-type: none"> Ratio Problems Worded percentage problems Rates of Change (Gradients & Areas) <p>Inverse & Direct Proportion</p> <p>Mid-Cycle Assessment: Section of GCSE Paper</p> <p>Assessment Week: GCSE Summative Exams</p>

<p>Assessment Week: Year 11 November Mock Exams</p>		
<p>Year 11 - Foundation</p>	<p>Cycle 1</p> <p>Topic: Unit 1: Proportion Unit 2: Growth and Decay Unit 3: Non- Linear Graphs Unit 4: Further Trigonometry</p> <p>Overview:</p> <ul style="list-style-type: none"> Unit 1 Unitary Method Recipes Formal Method for Proportion Direct and Inverse Proportion <p>Unit 2</p> <ul style="list-style-type: none"> Simple and Compound Interest Percentages Revision Reverse Percentage Change Repeated Percentage Change <p>Unit 3</p> <ul style="list-style-type: none"> Drawing quadratic graphs Features of Quadratic graphs Solving quadratic equations graphically Reciprocal and Cubic Graphs Proportion Graphs <p>Unit 4</p> <ul style="list-style-type: none"> Pythagoras Revision Trigonometry Revision Exact Trig Values <p>Mid-Cycle Assessment: End of Topic Test – Open Book</p> <p>Assessment Week: Year 11 November Mock Exams</p>	<p>Cycle 2</p> <p>Topic: Unit 5: Revise: Number & Algebra Unit 6: Revise: Geometry Unit 7: Revise: Statistics & Probability</p> <p>Overview:</p> <p>Unit 5</p> <ul style="list-style-type: none"> Number Problem Solving Fractions Calculations Percentage Calculations Financial Maths Questions Written Calculation Solving Equations Equivalent Expressions Rearranging Formulae Expanding, Factorising, Solving Quadratics <p>Unit 6</p> <ul style="list-style-type: none"> Angle Facts Area, Perimeter, Volume Locl & Constructions Pythagoras and Trigonometry <p>Unit 7</p> <ul style="list-style-type: none"> Mutually Exclusive Events Tree Diagrams Venn Diagrams Bar Charts & Pictograms Scatter Graphs and Correlation Averages and the range Averages from a Frequency Table <p>Mid-Cycle Assessment: Sections of GCSE Papers</p> <p>Assessment Week: Year 11 March Mock Exams</p>
		<p>Cycle 3</p> <p>Topic: Unit 8: Revise: Ratio, Proportion and Rates of Change</p> <p>Overview:</p> <p>Unit 9</p> <ul style="list-style-type: none"> Ratio Problems Worded percentage problems Rates of Change (Gradients & Areas) Inverse & Direct Proportion <p>Mid-Cycle Assessment: Section of GCSE Paper</p> <p>Assessment Week: GCSE Summative Exams</p>

