

Year 9 - Higher	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Curriculum Content	<p><u>Composite: Number</u></p> <p>Component 1: Number problems and reasoning Calculating combinations Factorials</p> <p>Component 2: Place value and estimating Using rounding to estimate calculations</p> <p>Component 3: HCF and LCM Prime Factor decomposition including index form Calculating Highest Common Factor (HCF) and Lowest Common Multiple (LCM) including use of Venn Diagrams Solving problems using HCF and LCM</p> <p>Component 4: Calculating with powers (indices) Powers and roots in calculations Index Laws (number)</p> <p>Component 5: Zero, negative and fraction indices</p> <p>Component 6: Standard form Writing numbers in standard form and calculating with standard form</p> <p>Component 7: Working with surds Simplifying a surd Calculating using surds Rationalise the denominator</p>	<p><u>Composite: Algebra</u></p> <p>Component 1: Algebraic Indices Zero, negative and fraction indices</p> <p>Component 2: Expanding and factorising Understanding identity and equation notation</p> <p>Component 3: Solve Equations Solve equations involving brackets and an unknown on both sides. Cross multiplication Form and solve equations using geometry facts</p> <p>Component 4: Formulae Write & substitute into a given formula Change the subject of a formula</p> <p>Component 5: Linear sequences Write and apply position to term rules of a linear sequence (nth term)</p> <p>Component 6: Other sequences Fibonacci sequences Geometric sequences Quadratic sequences Pascal's triangle</p> <p>Component 7: More expanding and factorising Expanding double brackets including difference of two squares Factorise quadratics Use expanding and factorising to solve problems Expand three brackets</p>	<p><u>Composite: Interpreting and Representing data</u></p> <p>Component 1: Construct statistical diagrams Pie charts Stem and Leaf diagram (Back to back) Frequency Polygons</p> <p>Component 2: Time series graphs & Scatter Graphs</p> <p>Component 3: Averages and range Applying suitable averages and range to justify statements Estimate the mean from grouped data Modal class and class width include the median</p> <p>Component 4: Statistical diagrams 2 Graphs: Misleading graphs and charts, line graphs & choosing suitable graphs</p> <p><u>Composite: Fractions, Ratio and Percentages</u></p> <p>Component 1: Fractions 4 operations with mixed numbers Working with reciprocal</p> <p>Component 2: Ratios Write a ratio in the form 1:n or n:1 Using unit ratios to solve problems Sharing in a given ratio Calculating using ratio when given 1 value</p> <p>Component 3: Ratio and proportion Use proportion to solve problems (e.g. exchange rates)</p> <p>Component 4: Percentages Percentage increase / decrease (VAT) Simple Interest & real life Percentage change Percentage Profit / Loss Reverse Percentage</p> <p>Component 5: F, D, P Using a mixture of fractions, decimals and percentages; Converting recurring decimals to fraction</p>	<p><u>Composite: Angles and Trigonometry</u></p> <p>Component 1: Angle properties of triangles and quadrilateral polygons (interior & exterior)</p> <p>Component 2: Angles of polygons (interior & exterior)</p> <p>Component 3: Pythagoras Theorem</p> <p>Component 4: Right-Angled Triangle Trigonometry Trigonometry Angles of elevation and depression</p> <p>Component 5: Solve problems with a combination of Pythagoras Theorem and Trigonometry</p> <p>Component 6: Exact values of Sine, Cosine and Tangent</p>	<p><u>Composite: Graphs</u></p> <p>Component 1: Linear graphs Write the equation of a line Rearranging $y = mx + c$</p> <p>Component 2: More Linear graphs Sketching graphs Gradient of a line and of two given points</p> <p>Component 3: Graphing rates of change SDT graph & Velocity time graphs</p> <p>Component 4: Real life graphs Draw and interpret real life graphs Direct proportion graphs Line of best fit</p> <p>Component 5: Line segments Midpoint of a line segment Interpreting the gradient of a line including parallel and perpendicular lines Justifying if points are on a given equation of a line</p> <p>Component 6: Quadratic graphs</p> <p>Component 7: Cubic and reciprocal graphs</p> <p>Component 8: More graphs Interpret linear and non-linear graphs Draw the graph of a circle</p> <p><u>Composite: Area and Volume</u></p> <p>Component 1: Perimeter and area Compound shapes & composite shapes</p> <p>Component 2: Area of a trapezium Converting between metric units (linear, area and volume)</p> <p>Component 3: Units of accuracy Error Intervals and upper and lower bounds</p> <p>Component 4: Prisms Surface area and volume of prisms</p> <p>Component 5: Circles Area and circumference (also in terms of pi)</p> <p>Component 6: Sectors of circles Semicircles and quarter circles</p>	<p><u>Composite: Transformations and Constructions</u></p> <p>Component 1: 3D Solids Plans and elevations</p> <p>Component 2: Reflections</p> <p>Component 3: Rotations</p> <p>Component 4: Translations</p> <p>Component 5: Enlargement including negative and fractional scale factors</p> <p>Component 6: Combinations of transformations</p> <p>Component 7: Bearings & scale drawings Apply map scales and scale drawings</p> <p>Component 8: Constructing triangles Constructing triangles (SSS, ASA, SAS, RHS) Constructing shapes using triangles</p> <p>Component 9: Bisectors Perpendicular bisector of a line including from a point on the line and above or below the line Bisecting an angle</p> <p>Component 10: Loci of a point, a line, two-point, two intersecting lines Shading regions which satisfy a requirement</p>

					Calculate arc lengths, perimeter, angles and area of sectors Component 7: Volume and surface area of a cylinder and a sphere (hemisphere) Component 8: Volume and surface area of pyramids and cones	
Prior knowledge and skills (from previous year / key stage)	Multiples and Factors, Directed Numbers, Venn Diagrams, HCF and LCM, Roots and index notation	Simplify an expression, Simplify fractions, Expand single brackets, Substitution, Position-to-term rules	Reading tables of information, Mean, Mode, Median and Range of a data set, Displaying and Comparing data, Grouped data Fraction of an amount, Operations using fractions, Ratios, Percentage of an amount	Squaring and square roots, Regular shapes, Angles on parallel lines, Substitution, Formula, Properties of shapes	Speed, Solve equations, Equation of a line, Plotting coordinates, Function tables Rounding, Capacity, Surface area, Nets, Volume, Units	Metric conversions, Congruent and similar shapes, Rotation, Reflection, Translations, Enlargements, Plotting straight line graphs, x and y coordinates, Use of a protractor and compass
Assessment Objectives	Confidently apply number skills to solve problems, including giving justifications.	Manipulate expressions and formulae to solve unknown values, including justifications as to methods used.	Interpret and represent data to identify and justify trends including making estimates as to future outcomes and apply Fractions, Percentage and Ratio to solve problems and make justifications	Apply angle facts to calculate missing values including the justification as to why a decision should or should not be made	Use graphs to make comparisons and conversions between different pieces of data, and make justifications as to decisions made. Apply properties of 2D and 3D shapes to solve problems and make justifications as to answers given	Use advanced motor skills to make accurate representations to support judgements made and solutions offered, including justification as to why.
Vocabulary / Key Subject Terminology	Prime factor tree, Venn diagram, Highest common factor, Lowest common multiple, Standard form, Surd, Rationalise a denominator	Identity, Equation, Expression, Formula, Variable, Subject, Sequence, Geometric sequence, Quadratic, Double brackets	Back to Back, Polygon, Frequency, Modal Class, Scatter Graph, Bivariate data, Interpolation, Extrapolation, Outliers Reciprocal, Unit Ratios, Direct Proportion, Simple Interest, VAT, Depreciates	Interior, Exterior, Hypotenuse, Opposite, Adjacent, Sine, Cosine, Tangent, Angle of elevation, Angle of depression, Exact Values	Midpoint, Reciprocal Functions, Parabola, Minimum Point, Maximum Point, Plotting and Drawing, Reading and Interpreting Volume, Capacity, Surface Area, Prism, Circumference, Pyramid	Plan, Elevation, Transformation, Object, Image, Scale Factor, Column Vector, Congruent, Similar, Bearing, Construct, Bisector, Locus, Perpendicular, Resultant Vector
Assessment 1	Prior knowledge assessment at the commencement of each unit of work	Prior knowledge assessment at the commencement of each unit of work	Prior knowledge assessment at the commencement of each unit of work	Prior knowledge assessment at the commencement of each unit of work	Prior knowledge assessment at the commencement of each unit of work	Prior knowledge assessment at the commencement of each unit of work
Assessment 2	End of unit test followed by WCF and self-assessment (Active Teach)	End of unit test followed by WCF and self-assessment (Active Teach)	End of unit test followed by WCF and self-assessment (Active Teach)	End of unit test followed by WCF and self-assessment (Active Teach)	End of unit test followed by WCF and self-assessment (Active Teach)	End of unit test followed by WCF and self-assessment (Active Teach)
Cross Curricular Links with other Faculties	Number Science - 7.3 (Energy stores and transfers) Component 3- Individual Liberty – Gender gap and women in mathematics/STEM	Algebra Business - 9.rotation (becoming an accountant) Science - 8.2 (mixtures and the changing earth) British Values – Individual Liberty –	Interpreting and Representing data English - Throughout Business - 8.rotation (becoming an accountant) Fractions, Ratio and Percentages Business - 10.5 The economy	Angles and Trigonometry Computing - 8.3 (scratch programming)	Graphs Health and Wellbeing - 7.6 (Methods of training) Area and Volume Humanities - 10.1 (Field work) British Values – Individual liberty – Component 3 - Graph work to	Transformations and Constructions Art - 7.1 (unaided and aided drawing)

	<p><u>British Vales – Black History Month - Mutual Respect & Tolerance - Celebration of cultural contributions and achievements</u></p> <p><u>British Values – Component 6- Individual liberty – critical thinking – Putting arguments in standard form</u></p>	<p><u>Component 1 - Alan Turing</u> <u>British Values –</u></p>	<p><u>British Values – Component 1, 2, 4 & 6- Mutual Respect & Tolerance - Celebration of contributions and achievements</u></p> <p>https://www.mathscareers.org.uk/article/black-heroes-mathematics/</p> <p><u>British Values – Component 2- Individual liberty – Use of data to manipulate audience.</u></p> <p><u>British Values – Component 4 - The rule of law – Economics and business</u></p>	<p><u>British Values – Component 3- Mutual Respect & Tolerance - Celebration of contributions and achievements</u></p> <p><u>British Values – Component 4 – Contribution of the Windrush generation to STEM.</u></p> <p><u>British Values – Component 2- Tolerance -component 7 - Use maths to learn about different faiths and cultures around the world. E.g. looking at patterns/shapes within Islam / Hindu religions.</u></p>	<p><u>include topics of where individual liberty has been encroached.</u></p>	<p><u>British Values – Component 1 - Mutual respect – Maths disabilities (e.g. Dyscalculia and other disabilities)</u></p>
Knowledge Organiser content	Key vocabulary, formulae and concepts meet within each unit, including Hegarty Maths clip numbers to promote independent learning opportunities	Key vocabulary, formulae and concepts meet within each unit, including Hegarty Maths clip numbers to promote independent learning opportunities	Key vocabulary, formulae and concepts meet within each unit, including Hegarty Maths clip numbers to promote independent learning opportunities	Key vocabulary, formulae and concepts meet within each unit, including Hegarty Maths clip numbers to promote independent learning opportunities	Key vocabulary, formulae and concepts meet within each unit, including Hegarty Maths clip numbers to promote independent learning opportunities	Key vocabulary, formulae and concepts meet within each unit, including Hegarty Maths clip numbers to promote independent learning opportunities
Extra-Curricular Offer	<p>“Problem of the week”</p> <p>Maths booster sessions</p> <p>Chess club</p> <p>Puzzle club</p> <p>Mastermind club</p> <p>Hegarty Maths club</p>	<p>“Problem of the week”</p> <p>Maths booster sessions</p> <p>Chess club</p> <p>Puzzle club</p> <p>Mastermind club</p> <p>Hegarty Maths club</p>	<p>“Problem of the week”</p> <p>Maths booster sessions</p> <p>Chess club</p> <p>Puzzle club</p> <p>Mastermind club</p> <p>Hegarty Maths club</p>	<p>“Problem of the week”</p> <p>Maths booster sessions</p> <p>Chess club</p> <p>Puzzle club</p> <p>Mastermind club</p> <p>Hegarty Maths club</p>	<p>“Problem of the week”</p> <p>Maths booster sessions</p> <p>Chess club</p> <p>Puzzle club</p> <p>Mastermind club</p> <p>Hegarty Maths club</p>	<p>“Problem of the week”</p> <p>Maths booster sessions</p> <p>Chess club</p> <p>Puzzle club</p> <p>Mastermind club</p> <p>Hegarty Maths club</p>

Year 10 - Higher	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Curriculum Content	<p><u>Composite: Equations and Inequalities</u></p> <p>Component 1: Solving quadratic equations via factorising Coefficient in front of x^2</p> <p>Component 2: Solve more complex quadratics Solve quadratics using the quadratic formula Solve quadratics by completing the square</p> <p>Component 3: Forming and solving simple simultaneous Real-life simultaneous equations</p> <p>Component 4: Linear and quadratic simultaneous equations Real-life simultaneous equations</p> <p>Component 5: Inequalities Number line inequalities Listing integers which satisfy inequalities Solving inequalities (including double sided)</p> <p><u>Composite: Probability</u></p> <p>Component 1: Combined events Combinations Sample space diagram</p> <p>Component 2: Mutually exclusive events & experimental probability Probability of events not happening Probabilities sum up to 1 Relative frequency Theoretical probability</p> <p>Component 3: Independent events and tree diagrams Frequency trees probability Independent probability Tree Diagrams</p> <p>Component 4: Conditional Probability Dependent probability Tree Diagrams</p> <p>Component 5: Venn diagrams Probability from Venn diagram and set notation</p>	<p><u>Composite: Multiplicative Reasoning</u></p> <p>Component 1: Growth and decay Repeated percentage change Compound interest Income including overtime</p> <p>Component 2: Compound measures Speed/Distance/Time Kinematics Formulae</p> <p>Component 3: More Compound measures Density/Mass/Volume Pressure/Force/Area</p> <p>Component 4: Ratio & Proportion Use direct / inverse proportion graphs Algebraic proportion notation including using formulae</p> <p><u>Composite: Similarity and Congruence</u></p> <p>Component 1: Congruence Apply and know conditions of congruence</p> <p>Component 2: Geometric proof and congruence Solve problems involving congruence</p> <p>Component 3: Similarity Use scale factor to solve problems involving similar shapes Use links between linear scale factor in area and volume scale factor</p>	<p><u>Composite: Trigonometry</u></p> <p>Component 1: Accuracy Applying upper and lower bounds in trigonometry</p> <p>Component 2: Graphs of Trig functions Graphs of Sine, Cosine and Tangent function</p> <p>Component 3: Sine rule Calculating areas and the sine rule</p> <p>Component 4: The Cosine rule Solve bearing problems (2D)</p> <p>Component 5: Solving problems in 3D Pythagoras Theorem 3D 3D Trigonometry 3D</p> <p>Component 6: Transforming Trigonometric graphs</p>	<p><u>Composite: Further Statistics</u></p> <p>Component 1: Sampling Stratified Sample Estimate the size of a population</p> <p>Component 2: Cumulative Frequency graphs Lower/Upper quartiles and interquartile range</p> <p>Component 3: Box plots including comparative box plots</p> <p>Component 4: Histograms Drawing and interpreting histograms</p> <p>Component 5: Comparing and describing populations including consideration of outliers</p>	<p><u>Composite: Equations and Graphs</u></p> <p>Component 1: Solving simultaneous equations graphically Linear & Quadratic</p> <p>Component 2: Representing equations graphically Graphing inequalities including regions</p> <p>Component 3: Graphs of quadratic functions including turning points and roots Solving quadratic equations Find approximate solutions to quadratic equations graphically</p> <p>Component 4: Graphs of cubic functions including roots</p> <p>Component 5: Iteration Iterative process for quadratic and cubic functions</p>	<p><u>Composite: Circle Theorems</u></p> <p>Component 1: Radii and Chords Solve problems involving chord and radii</p> <p>Component 2: Tangents Tangents at a point and from a point Reasoning using tangent facts</p> <p>Component 3: Angles in circles 1 Angles subtended at the centre and the circumference of a circle Angle in a semi-circle is a right angle</p> <p>Component 4: Angles in circles 2 Angle facts about cyclic quadrilaterals Alternate segment theorem</p> <p>Component 5: Applying circle theorems Solve angle problems using circle theorems Give reasons for angle sizes using mathematical language Equation of the tangent to a circle at a given point</p>

Prior knowledge and skills (from previous year / key stage)	Inequality notation, Solving equations, Forming expressions and equations, Expanding and factorising Operations with fractions, Probability language, Probability diagrams, Outcomes	Direct proportion principles, Metric/imperial conversions, Changing the subject of a formula, Substitution Congruent shapes, Similar shapes, Scale factors, Vertically opposite angles, Angles on parallel lines properties	Substitution, Rearranging Formulae, Sine, Cosine and Tangent in right-angled triangles, Inverse function on a calculator, Multi-step problems with geometry, Bounds	Diving into a ratio, Discrete and Continuous data, Averages, Range, Grouped frequency tables, Representing and interpreting data	Simplifying surds, Solve inequalities, Inequality notation, Expanding double brackets, Factorise quadratics, Completing the square, Simultaneous equations, Plotting graphs, Substitution	Factorise, Properties of circles, Angle properties of triangles and quadrilaterals, Pythagoras Theorem, Congruent triangles, Labelling parts of circles, perpendicular lines
Assessment Objectives	Applying and manipulating quadratic expressions and equations to provide solutions to problems, including justifications of methods used Make decisions based on justified probabilities	Use multiplicative reasoning to ensure financial and real world safety and security Apply conditions of congruence and similarity to solve problems, including making justifications as to answers given	Confidently identify and apply correct formulae to solve problems in both 2D and 3D shapes, including justifying methods used.	Representing and Interpreting data to make justified comparisons and their real life application in decision making processes	Manipulate and represent algebraic principles to calculate solutions which satisfy an equation	Apply circle theorems and angle properties of 2D shapes to justify the value of missing angles including giving clear mathematical reasons as to methods used
Vocabulary / Key Subject Terminology	Roots, Quadratic, Perfect square, Completing the square, Simultaneous equations, Inequalities, Set notation Mutually exclusive, Tree diagram, Independent, Conditional, Intersection, Union	Compound interest, Velocity, Initial velocity, Acceleration, Mass, Volume, Force, Area, Density, Pressure Congruence, Similarity, Conditions, Statements, Scale factor, Enlargements, Linear, Area and Volume	Sine Rule, Cosine Rule, Tangent, Plane, Function, Inverse, Formulae, Rearrange, Translation, Diagonal, Trigonometric graphs, Angle notation	Population, Census, Sample, Bias, Random, Strata/Stratum, Stratified sample, Cumulative frequency, Upper class boundary, Upper / lower quartiles, Interquartile range, Box plot (box-and-whisker diagram), Comparative, Class Width, Frequency Density, Histograms	Simultaneous, Satisfy, Inequalities, Regions, Shaded, set notation, Quadratic Function, Roots, Turning point, Completed square, Sketch, Cubic function, Intersects, Maximum / minimum point	Tangent, Chord, Cyclic quadrilateral, Alternate segment, Perpendicular, Subtended, Semicircle, Circumference, Equal, Exterior angle, Interior angle, Radii, Diameter, Midpoint
Assessment 1	Prior knowledge assessment at the commencement of each unit of work	Prior knowledge assessment at the commencement of each unit of work	Prior knowledge assessment at the commencement of each unit of work	Prior knowledge assessment at the commencement of each unit of work	Prior knowledge assessment at the commencement of each unit of work	Prior knowledge assessment at the commencement of each unit of work
Assessment 2	End of unit test followed by WCF and self-assessment (Active Teach)	End of unit test followed by WCF and self-assessment (Active Teach)	End of unit test followed by WCF and self-assessment (Active Teach)	End of unit test followed by WCF and self-assessment (Active Teach)	End of unit test followed by WCF and self-assessment (Active Teach)	End of unit test followed by WCF and self-assessment (Active Teach)
Cross Curricular Links with other Faculties	Probability Computing - 11.3 (data representation) British Values –Mutual Respect – <u>There is no specific link to components but questions throughout this unit of work can include involve people, include the names of two people with the same gender or names originating from</u>	Multiplicative Reasoning Science - 7.4 (fundamental forces) Business - 9.rotation (becoming an accountant) British Values –Mutual Respect – <u>There is no specific link to components but questions throughout this unit of work can include involve people, include the names of two</u>	British Values –Mutual Respect – There is no specific link to components but questions throughout this unit of work can include involve people, include the names of two people with the same gender or names originating from different countries/cultures around the world.	Further Statistics Science - 11.1 (Sampling techniques) Links to British Values (mutual respect and tolerance): Limits to sampling (Component 1) → Comparing and contrasting societal attitudes in different countries	Equations and graphs Computing - 11.1 (programming techniques) Links to British Values (rule of laws) → (Component 1) → Discussion of historic figures in Algebra and maths, e.g. Blaise Pascal, Albert Einstein, Isaac Newton, etc.	British Values – Component 1 - Mutual respect – Maths disabilities (e.g, Dyscalculia and other disabilities) Links to British Values (rule of laws) (Component 1) → Discussion of historical figures e.g. Pythagoras, explore story of Pythagoras in a historic context. Also use various visual methods of proving Pythagoras' Theorem

KS4 Maths / Year 11 Higher / Academic Year 2022-2023



Year 11 - Higher	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Curriculum Content	<p><u>Composite: Algebra</u></p> <p>Component 1: Rearrange formula Subject appears once and appears twice</p> <p>Component 2: Algebraic fractions Add and subtract algebraic fractions Factorise and simplify algebraic fractions Multiply and divide</p> <p>Component 3: More complex algebraic fractions Add and subtract complex algebraic fractions Multiply and divide algebraic fractions</p> <p>Component 4: Surds Simplify expressions involving surds Expand expressions involving surds Rationalise the denominator of a fraction</p> <p>Component 5: Solve algebraic fraction equations</p> <p>Component 6: Functions Use function notation Find composite functions and inverse functions</p> <p>Component 7: Algebraic proof Prove a result using algebra</p>	<p><u>Composite: Vectors and Geometric Proof</u></p> <p>Component 1: Vector notation Understand and use notation Magnitude of a vector</p> <p>Component 2: Vector arithmetic Calculate using vectors including showing solutions graphically and the resultant of two vectors</p> <p>Component 3: Solve problems using vectors Use the resultant of two vectors to solve problems Express points as position vectors</p> <p>Component 4: Parallel vectors and collinear points Prove lines are parallel and points are collinear</p> <p>Component 5: Solve geometric problems in 2D using vector methods Apply vector methods for geometric proofs</p>	<p><u>Composite: Proportion and Graphs</u></p> <p>Component 1: Direct proportion Write and use equations to solve problems involving direct proportion</p> <p>Component 2: More direct proportion Solve problems involving square and cubic proportionality</p> <p>Component 3: Inverse proportion Write and use equations to solve problems involving inverse proportion Use and recognise graphs showing inverse proportion</p> <p>Component 4: Exponential functions Graphs of exponential functions (growth / decay)</p> <p>Component 5: Non-linear graphs Calculate the gradient of a tangent at a point Estimate the area under a non-linear graph</p> <p>Component 6: Translating graphs of functions</p> <p>Component 7: Reflecting and stretching graphs of functions</p>	<u>Year 11 Revision and Exam Preparation</u>	<u>Year 11 Revision and Exam Preparation</u>	<u>Year 11 Revision and Exam Preparation</u>
Prior knowledge and skills (from previous year / key stage)	Rearranging formula, Factorising, HCF, Expanding and simplifying, Index Laws, Quadratic formula, Completing the square	Angle and line notation, Ratio to fraction conversions, Collecting like terms, Bearings, Translation, Column vectors	Plotting graphs, Interpreting graphs, Index notation, Reciprocals, Direct and inverse Proportion, Rearranging formulae	<u>Year 11 Revision and Exam Preparation</u>	<u>Year 11 Revision and Exam Preparation</u>	<u>Year 11 Revision and Exam Preparation</u>
Assessment Objectives	Applying algebraic principles to solve equations involving algebraic fractions, and to prove results.	Using vector principles to prove statements including justification of methods used	Justify statements using a variety of graphs and functions.	<u>Year 11 Revision and Exam Preparation</u>	<u>Year 11 Revision and Exam Preparation</u>	<u>Year 11 Revision and Exam Preparation</u>

Vocabulary / Key Subject Terminology	Isolating, Common denominator, factorise, simplify, rationalise, proof, counter example, consecutive	Vector, Magnitude, Displacement, Bold, Triangle law for vector addition, Resultant vector, Position vector, Collinear	Constant of proportionality, Inversely proportional, Exponential functions, Exponential growth / decay, Chord, Displacement	<u>Year 11 Revision and Exam Preparation</u>	<u>Year 11 Revision and Exam Preparation</u>	<u>Year 11 Revision and Exam Preparation</u>
Assessment 1	Prior knowledge assessment at the commencement of each unit of work	Prior knowledge assessment at the commencement of each unit of work	Prior knowledge assessment at the commencement of each unit of work	<u>Year 11 Revision and Exam Preparation</u>	<u>Year 11 Revision and Exam Preparation</u>	<u>Year 11 Revision and Exam Preparation</u>
Assessment 2	End of unit test followed by WCF and self-assessment (Active Teach)	End of unit test followed by WCF and self-assessment (Active Teach)	End of unit test followed by WCF and self-assessment (Active Teach)	<u>Year 11 Revision and Exam Preparation</u>	<u>Year 11 Revision and Exam Preparation</u>	<u>Year 11 Revision and Exam Preparation</u>
Cross Curricular Links with other Faculties	Algebra Science – 10.3 (Quantitate Chemistry)	Vectors and Geometric Proof Computing – 7.3 (Graphic Design)	Proportion and Graphs Business – 10.3 (Business idea)	<u>Year 11 Revision and Exam Preparation</u>	<u>Year 11 Revision and Exam Preparation</u>	<u>Year 11 Revision and Exam Preparation</u>
Knowledge Organiser content	Key vocabulary, formulae and concepts meet within each unit, including Hegarty Maths clip numbers to promote independent learning opportunities	Key vocabulary, formulae and concepts meet within each unit, including Hegarty Maths clip numbers to promote independent learning opportunities	Key vocabulary, formulae and concepts meet within each unit, including Hegarty Maths clip numbers to promote independent learning opportunities	<u>Year 11 Revision and Exam Preparation</u>	<u>Year 11 Revision and Exam Preparation</u>	<u>Year 11 Revision and Exam Preparation</u>
Extra-Curricular Offer	“Problem of the week” Maths booster sessions Chess club Puzzle club Mastermind club Hegarty Maths club	“Problem of the week” Maths booster sessions Chess club Puzzle club Mastermind club Hegarty Maths club	“Problem of the week” Maths booster sessions Chess club Puzzle club Mastermind club Hegarty Maths club	<u>Year 11 Revision and Exam Preparation</u>	<u>Year 11 Revision and Exam Preparation</u>	<u>Year 11 Revision and Exam Preparation</u>