

Progression map: breaks down the key concepts to specify the most important knowledge and how that knowledge builds within the curriculum.

Key Concepts	Year 10	Year 11
Number	Developing number	- Geometry Techniques - Application of geometry - Number revision
Ratio and proportion	Developing geometry	- Geometry Techniques - Application of geometry - Ratio revision
Algebra	- Algebraic techniques - Developing algebraic techniques	- Geometry Techniques - Application of geometry - Algebra revision
Geometry and Measures	- Reasoning with geometry - Application of geometry - Reasoning with geometry	- Geometry Techniques - Application of geometry - Geometry revision
Statistics	- Statistical techniques - Application of statistics	Stats revision
Probability		Probability revision

Year 10 Higher					
Autumn Term		Spring Term		Summer Term	
Unit Title: - Reasoning with geometry - Statistical Techniques - Application of geometry - Developing number - Developing geometry	Unit length: 3 weeks 2 weeks 2 weeks 1 week 3 weeks	Unit Title: - Reasoning with geometry - Algebraic techniques - Reasoning with geometry - Algebraic techniques	Unit length: 2 weeks 3 weeks 3 weeks 2 weeks	Unit Title: - Application of statistics - Developing algebraic techniques	Unit length: 3 weeks 4 weeks
Domains of Knowledge: - Transformations - Congruency - Charts and graphs - Compound measures - Pythagoras Theorem - Surds - Trigonometry - Vectors		Domains of Knowledge: - Circle theorems - Simultaneous Equations - Sequences - Exponential Functions - Area and volume - Iterative methods		Domains of Knowledge: - Cumulative frequency with boxplots - Histograms - Linear and quadratic inequalities - Solving algebraic fractions	
Relevant Key Concepts: - Geometry - Number - Statistics - Algebra - Ratio and proportion		Key Concepts: - Geometry - Algebra - Number - Ratio and proportion		Key Concepts: - Statistics - Algebra - Number - Ratio and proportion	
Gateway knowledge: - Angles and parallel lines - Properties of polygons - Intervals of graph scales - Units of conversions		Gateway knowledge: - Properties of isosceles triangles - Labelling circles - Substitution - Collect like terms		Gateway knowledge: - Percentages - Fractions of an amount - Interpreting graph scales - Averages	

• Square numbers, roots, primes • Solving equations • Expanding and simplifying algebra • Changing the subject • Using a calculator	• Linear sequences • Laws of indices • Scales on a graph • Units of conversion • Scale factors • Changing the subject • Factorising linear and quadratic equations	• Area of rectangles • Solving equations • Collecting like terms • Changing the subject • Sketching quadratic graphs • Fractions • Expanding brackets • Factorising
Assessment end-points: • Describe and use transformations • Prove that two shapes are congruent • Draw and use charts and graphs • Draw and interpret scatter graphs • Problem solve with compound measures • Use pythagoras theorem • Add, subtract, multiply and divide surds • Rationalising the denominator • Solve trigonometry problems • Find lengths and angles in 2D and 3D shapes • Combine vectors and use a scalar	Assessment end-points: • Know and use circle theorem properties • Solve linear and quadratic simultaneous equations with 2 variables. • Pattern spot, continue sequences and find the general term of linear, geometric and quadratic sequences - link to graphs • Draw Exponential Functions • Problem solve with area of all 2 dimensional shapes • Calculate volume of 3 dimensional shapes	Assessment end-points: • Draw and interpret cumulative frequency diagrams and use them with boxplots to compare 2 sets of data. • Analyse and draw histograms to compare data • Solve linear and quadratic inequalities • Rearrange and solve algebraic fractions

Year 11 Higher					
Autumn Term		Spring Term		Summer Term	
Unit Title: Geometry Techniques Application of Geometry	Unit length: 3 weeks 5 weeks	Unit Title: • Number revision • Stats and probability revision • Geometry revision • Algebra revision	Unit length: 2 weeks 2 weeks 2 weeks 3 weeks	Unit Title: • priority timetable revision.	Unit length:
Domains of Knowledge: • Maps and Scales • Constructions • Loci • Sinx, cosx, tanx graphs • equations involving trig functions • transforming graphs • Sine, Cosine rule • Plans and elevations • bearings • 3D coordinates • 3D trigonometry		Domains of Knowledge: • FDPR • Cumulative frequency • Histograms • area and volume • Missing angles • solving equations • expanding and factorising • Graphs and equation of a line • functions		Domains of Knowledge: •	
Relevant Key Concepts: • Ratio and proportion • Number • Geometry and measure • algebra		Key Concepts: • Number • ratio and proportion • geometry and measures • Statistics • probability • Algebra		Key Concepts:	
Gateway knowledge: • conversions of units • line and angle notation and terminology • Trigonometry in 2D • Pythagoras. • Plotting graphs • solving equations		Gateway knowledge: • previous taught content		Gateway knowledge: •	

• 2D coordinates • angles facts. • Using a protractor		
Assessment end-points: • Construct with a ruler and compass • Draw loci • Solve equations using trigonometry using angles of any size. • Sketch translations and reflections of functions • Draw and use plans and elevations • Measure and calculate bearings • Use Sine and Cosine rules • Solve 3D problems using trigonometry.	Assessment end-points: • exam style questions • Application of knowledge	Assessment end-points: •