

KS4 – Year 11 – Mathematics Higher

Term	Topic Titles	Brief Overview
1	H12 - Probability	Calculate probabilities for single or multiple events happening, including experimental data.
	H12 - Quadratic equations	Manipulate and solve quadratic equations by factorising, using the formula and completing the square.
	H13 - Simultaneous equations	Solve linear and quadratic simultaneous equations algebraically and graphically.
	H13 - Measures	Use standard units for measures and understand compound measures in a variety of contexts.
	H13 - Curved graphs	Recognise, sketch and interpret quadratic, cubic, reciprocal, exponential and trigonometric graphs.
	H14 - Gradients and rates of change	Use and understand gradient as a rate of change in application to graphs and other problems.
	H14 - Properties of polygons	Apply angle facts for polygons to geometric proofs.
	H15 - Sine and cosine rules	Use trigonometry in non-right angled triangles.
	H15 - Inequalities	Solve and represent linear and quadratic inequalities using algebraic and graphical methods.
2	H16 - Growth and decay	Understand and use powers with percentages to calculate growth and decay and explore exponential functions.
	H16 - Numerical methods	Use iteration to approximate solutions to algebraic equations.
	H16 - Transforming functions	Apply linear transformations to functions, using function notation.
	H17 - Constructions and loci	Use mathematical equipment to construct accurate representations of 2D shapes, and understand and use loci in a variety of contexts.
	H17 - Equation of a circle	Understand and use the equation of a circle.