

AQA GCE Mathematics Year 12	
Half term 1	Pure topics: <ul style="list-style-type: none"> • Problem Solving, Mathematical Notation and Proof • Surds & Indices • Quadratic Functions • Trigonometry • Equations and Inequalities
Half term 2	Pure topics: <ul style="list-style-type: none"> • Coordinate Geometry • Polynomials • Graphs and Transformations • Differentiation
Half term 3	Pure Topics <ul style="list-style-type: none"> • Binomial Expansion • Integration • Vectors • Exponentials & Logs
Half term 4	Applied Topics – Mechanics & Statistics <ul style="list-style-type: none"> • Kinematics • Forces & Newton’s Laws • Variable acceleration • Large Data Sets
Half term 5	Applied Topics – Mechanics & Statistics <ul style="list-style-type: none"> • Collecting and interpreting data • Probability • Binomial Distribution • Statistical Hypothesis Testing Revision for AS exams (End of year test)
Half term 6	Pure Topics: Start in the contents of year 13.
Independent study expectations	Students are expected to do an hour of independent study for each lesson that they have. This is normally completing extra practice from the work that they have completed in lesson, working through pre-printed notes and examples, or completing the end of unit assessment. In addition to this students should regularly revisit previous modules/units of work to ensure their prior knowledge is secure.
By the time you finish key stage 5 you’ll be...	Able to see the links between different areas of maths and apply their maths skills across all areas that are summarised by the three over-arching themes: <ul style="list-style-type: none"> • Mathematical agreement, language and proof (OT1) • Mathematical problem solving (OT2) • Mathematical modelling (OT3)

NOTE: This is a legacy specification which ends in July 2018

AQA GCE Mathematics	
Half term 1	Core 3 Unit: (Continuation from year 12) Algebra and Functions Trigonometry Exponentials and Logarithms Differentiation Integration Numerical Methods
Half term 2	Core 4 Unit: Algebra and Functions Coordinate Geometry in the (x,y) plane Sequences and Series Trigonometry Exponentials and Logarithms Differentiation and Integration Vectors
Half term 3	Core 4 Unit: - Continuation from last half term.
Half term 4	Mechanics Unit: Mathematical Modelling Kinematics in One and Two Dimensions Statics and Forces Momentum Newton's Laws of Motion Connected Particles Projectiles
Half term 5	Mechanics Unit – Continuation from last half term Revision & Exam preparation
Independent study expectations	Students are expected to do an hour of independent study for each lesson that they have. This is normally completing extra practice from the work that they have completed in lesson, working through pre-printed notes and examples, or completing the end of unit assessment. In addition to this, students should regularly revisit previous modules/units of work to ensure their prior knowledge is secure.
By the time you finish key stage 5 you'll be...	Able to solve detailed problems from any one of the units listed below: Pure Core 1 Pure Core 2 Pure Core 3 Pure Core 4 Mechanics 1 Statistics 1