

## Year 12 Maths Faculty Curriculum Outline

Head of Department: Mrs M Justice

Email: M.Justice@alleynes.staffs.sch.uk

<b>Year 12 Maths</b>	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 1</b>	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
	Algebraic expressions Quadratics Equations and Inequalities Graphs and transformations  Data collection Measures of location and spread Representations of data	Straight line graphs Circles  Correlation Probability Statistical distributions	Algebraic methods Binomial expansion Trig ratios Trig identities and equations Hypothesis testing Modelling in mechanics	Vectors Differentiation  Constant acceleration  Forces and motion	Integration Exponentials and logs Variable acceleration	Revision for mock if time  Start year 2  Algebraic methods Functions and graphs  Regression, correlation and hypothesis testing
<b>Year 12 Further Maths</b>	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 1</b>	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
	Complex Numbers Matrices	Complex Numbers Series Algorithms Graphs and Networks Algorithms on graphs	Algebra and Functions  Momentum and Impulse Work and Energy	Vectors  Algorithms on graphs II(part1) Linear programming (part 1) Critical path analysis (part 1)	Integration Exponentials and logs  Variable acceleration	Algebraic methods Functions and graphs  Regression, correlation and hypothesis testing