

# Key Stage 5 Mathematics Curriculum Map



	AUTUMN TERM 1	AUTUMN TERM 2	SPRING TERM 1	SPRING TERM 2	SUMMER TERM 1	SUMMER TERM 2
<b>Year 12 Pure</b>	Algebraic Expressions Quadratics Equations and Inequalities Graphs and Transformations	Straight Line Graphs Circles Algebraic Methods	Binomial Expansion Trigonometric Ratios Trigonometric Identities	Vectors Differentiation Integration	Integration Exponentials and Logarithms  Year 2 Content Differentiation Algebraic Methods	Revision for PPE  Resits
<b>Year 12 Applied</b>	Data Collection Measures of Location and Spread Representations of Data Correlation	Modelling in Mechanics Constant Acceleration Formulae	Probability Statistical Distributions Hypothesis Testing	Forces and Motion Variable Acceleration	Pure Content Covered: Radians  Revision	Revision for PPE  Resits
<b>Year 12 Further</b>	Algorithms Graphs Route inspection Travelling Salesman	Linear Programming Simplex Critical Path Analysis  Complex Numbers	Complex Numbers Argand Diagrams Series Roots of Polynomials Matrices	Matrices Matrix Transformations	Proof by Induction Vectors Volumes of Revolution Revision	Revision for PPE  Transportation Problems Allocation Problems
<b>Year 12 Core Maths</b>	Types of data Collecting data Introduction to spreadsheets Statistical Diagrams	Numerical Calculations Percentages Fermi Estimation Representing data Interest rates	Equation of a straight line Collecting and sampling data Normal Distribution	Financial problems Area, perimeter, circumference	Similarity Pythagoras Critical Analysis	Revision for PPE  Personal Finance
<b>Feed back</b>	Topic Tests to be completed after each major topic Homework set on MyMaths, DrFrostMaths, Textbook questions Full Paper Assessments in term Spring 2A PPEs June					



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	AUTUMN TERM 1	AUTUMN TERM 2	SPRING TERM 1	SPRING TERM 2	SUMMER TERM 1	SUMMER TERM 2
<b>Year 13 Pure</b>	Sequences and Series Trigonometric Functions Trigonometry and Modelling	Parametric Equations Integration	Revision for PPEs  Differentiation Functions and graphs	Binomial Expansion Numerical Methods Vectors	Revision	Revision
<b>Year 13 Applied</b>	Regression, Correlation and Hypothesis Testing Conditional Probability	Moments Forces and Friction Projectiles	Revision for PPEs  Normal Distribution	Application of Forces Further Kinematics	Revision	Revision
<b>Year 13 Further</b>	Flows in Networks Dynamic Programming	Game Theory Decision Analysis  Complex Numbers Series Polar Coordinates	Revision for PPEs  Hyperbolic Functions Methods in Calculus Volumes of Revolution Differential Equations  Recurrence Relations	Revision	Revision	Revision
<b>Year 13 Core Maths</b>	Review Representing data Graphical representations	Critical Analysis Correlation and Regression	Repayments and credit VAT Limits of Accuracy	Probabilities and estimation Confidence Intervals Income Tax and NI	Critical Analysis Revision	Revision
<b>Feedback</b>	PPEs September/October		PPEs January		Exams May/June	
	Topic Tests to be completed after each major topic Homework set on MyMaths, DrFrostMaths, Textbook questions					