Subject Name: Mathematics

Year 12	Subject Theme	Wider Reading/Independence
Autumn	Algebraic expressions, Straight line graphs, differentiation, integration, Equations and inequalities, circles , Graphs and transformations	The number mystery– Marcus Du Sautoy Professor Stewarts cabinet of Mathematical curiosities– Ian Stewart More or less podcast
Spring	Algebraic methods, Trigonometric ratios, trigonometric equations and identities, Exponentials and logarithms, Vectors, radians , Trigonometric functions, modelling with trigonometry	Why do buses come in threes– Rob Easterway The man who loved only numbers– Paul Hoffman Youtube numberphile channel
Summer	Data collection, Measures of location and spread, representations of data, correlation, probability, Statistical distributions, Hypothesis testing, Modelling in mechanics, constant acceleration, Forces and motion, variable acceleration	The Simpsons and their mathematical secrets-Simon Singh 1089 and all that– David Acheson Wrong but useful podcast

Subject Name: Mathematics

Year 13	Subject Theme	Wider Reading/Independence
Autumn	Algebraic Methods, Functions and graphs, Sequences and Series, Binomial Expansion, Radians, Moments, Regression, Forces and Friction, Conditional Probability	Cracking Mathematics, You , this book and 4000 years of theories – Colin Beveridge Flatland, A romance of many dimensions-Edwin Abbott Youtube Vi Hart channel
Spring	Trigonometric Functions, Modelling with Trigonometry, Parametric Equations, Numerical Methods, Vectors, Differentiation, Integration, Projectiles, The Normal Distribution, Applications of forces, Further Kinematics	Fermats last theorem– Simon Singh The code book-Simon Singh Relatively prime podcast
Summer	The Normal Distribution, Applications of forces, Further Kinematics Revision	Maths and physics tutor has an extensive back catalogue of past paper questions to prepare for examinations with