BEAL SIXTH FORM

A-Level MATHEMATICS: Edexcel
Plans for Year 12 & 13 Curriculum

TERM	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
YEAR 12	**Pure 1:** 1. Algebraic Expressions 2. Quadratics 3. Equations and Inequalities 4. Graphs and Transformations 7. Algebraic Methods 5. Straight Line Graphs 6. Circles **Statistics 1:** 1. Data collection 2. Measures of Location and Spread 3. Representations of Data 4. Correlation	**Pure 1:** 8. The Binomial Expansion 9. Trigonometric Ratios 10. Trigonometric Identities and Equations 11. Vectors 12. Differentiation 13. Integration **Pure 2:** 3. Sequences and Series **Statistics 1:** 5. Probability 6. Statistical Distributions 7. Hypothesis Testing	**Mid Year Exams** **Revision** **Pure 1:** 14. Exponentials and Logarithms **Pure 2:** 5. Radians 12. Vectors **Mechanics 1:** 8. Introduction to Mechanics 9. Constant Acceleration	**Pure 2:** 1. Algebraic Methods 2. Functions and Graphs 4. Binomial Expansion **Mechanics 1:** 10. Forces and Motion 11. Variable Acceleration	**Pure 2:** 10. Numerical Methods 6. Trigonometric Functions 7. Trigonometry and Modelling **Statistics 2:** 1. Regression, Correlations and Hypothesis Testing 2. Conditional Probability	**Progression Exams** **Revision** **Pure 2:** 8. Parametric Equations **Statistics 2:** 3. The Normal Distribution
YEAR 13	**Progression Exams** **Revision** **Pure 2:** 9. Differentiation 11. Integration **Mechanics 2:** 5. Forces and Friction 4. Moments	**Revision** **Mechanics 2:** 7. Application of Forces 6. Projectiles	**Revision** **Mechanics 2:** 8. Further Kinematics	**Progression Exams** **Revision**	**Revision**	**Exams**

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Paper 1: Pure Mathematics 1	Pure Maths (100 Marks) Specification Overview Exam materials
Paper 2: Pure Mathematics 2	Pure Maths (100 Marks) Specification Overview Exam materials
Paper 3: Applied Mathematics	Applied Maths (100 Marks) – this paper is further divided into two parts; Statistics (50 marks) and Mechanics (50 marks) Specification Overview Exam materials

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TERM	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
YEAR 12	**Core Pure 1** 1. Complex Numbers 2. Argand Diagrams 3. Series **Decision** 1. Algorithms 2. Graphs and Networks 3. Algorithms on Graphs	**Core Pure 1** 4. Roots of Polynomials 6. Matrices **Decision** 4. Route Inspection 6. Linear Programming	**Core Pure 1** 5. Volumes of Revolution 7. Linear Transformations **Decision** 8. Critical Path Analysis **Further Pure 1** 2. Conic Section 1	**Core Pure 1** 8. Proof By Induction 9. Vectors **Decision** 8. Critical Path Analysis (continues) **Further Pure 1** 1. Vectors	**Further Pure 1** 4. Inequalities 5. The t-formulae **Decision** Recap Algorithms on graph Floyd's Algorithm	**Further Pure 1** 8. Numerical Methods **Decision** A2 content - Graphs and Network Travelling salesman problems
YEAR 13	**Core Pure 2** 1. Complex Numbers 2. Series **Decision 1** 2. Graphs & Networks – The Planarity Algorithm 4. Route Inspection – Networks with more than four odd nodes **Further Pure 1** 1. Vectors Conic Sections 2	**Core Pure 2** 3. Methods in Calculus 4. Volumes of Revolution **Decision 1** 5. The Travelling Salesman Problem **Further Pure 1** 6. Taylor Series	**Core Pure 2** 5. Polar Coordinates 6. Hyperbolic Functions **Decision 1** 7. The Simplex Algorithm **Further Pure 1** 7. Methods in Calculus	**Core Pure 2** 7. Methods in Differential Equations 8. Modelling with Differential Equations **Decision 1** 8. Critical Path Analysis – Histograms and Scheduling	**Further Pure 1** 9. Reducible Differential Equations	

Link to the Specification and exam materials: