

## KS4 Curriculum Overview 2024-25

### Subject: MATHS

#### Rationale of KS4 Curriculum:

- ✓ Students in Year 10 and 11 build on core skills and apply their knowledge in different exam situations to prepare them for their Mathematics GCSE exam.
- ✓ The year 10 curriculum is sequenced to ensure all aspects of the curriculum are with more emphasis on exam style questions and problem solving.
- ✓ Year 11 is focused on the separate knowledge and skills required for foundation or higher depending on the student, ensuring there is effective crossover content for specific classes.
- ✓ Focus on exam practice for year 11 students within responsive revision along with constant revision of concepts through retrieval practice.
- ✓ Through the Edexcel GCSE Curriculum, students in KS4 develop their fluency, reasoning and problem-solving skills.
- ✓ Planned cultural capital: Using Mathematical skills in real life contexts linked to careers and problem solving.

#### Sequence of Learning:

KS3	Term 1	Term 2	Term 3
Year 10	Equations and Inequalities Sequences Linear and Real-Life Graphs Types of Number Perimeter, Area and Volume Expanding and Factorising Indices Algebra Recap Sequences Linear Graphs Quadratic Graphs Perimeter and Area Circles Surds	Representing Data FDP Angles Construction Averages Transformations Representing Data Averages Ratio & Proportion Angles Pythagoras Transformations Bearings Loci & Construction	Pythagoras Ratio Proportion Probability HCF & LCM – Venn Diagrams SOHCAHTOA Solving Quadratics Probability Statistical Diagrams Growth and Decay Direct and Inverse Proportion
Year 11	Percentages Growth and Decay Compound Measures Shape Constructions and Loci Expanding and Factorising Circles Area and Volume Calculating with Fractions  Similarity and Congruence Sin, Cos, Tan Transforming Graphs Sine and Cosine Rule Inequalities Triple Brackets Circle Theorem Equation of a Circle Surds Functions	Indices Standard Form Similarity Congruence Vectors Solving Equations Changing the Subject Simultaneous Equations Vectors Direct Proportion Inverse Proportion Exponential Equations and Graphs Estimating a Gradient Area Under a Curve	Responsive Revision