Faculty: Maths
Subject Area: Maths

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HOPE
RESPECT
RESILIENCE
COMMUNITY

YEAR 9 – MATHS

1 — **Autumn 1**
- Properties of Number
- Percentages
- Interest
- Area
- Volume
- Surds (Extension)

2 — **Autumn 2**
- Equations
- Inequalities
- Formulae
- Fractions
- Rates
- Standard Form

3 — **Spring 1**
- Maths & Money
- Spending
- Saving
- Borrowing
- Budgeting
- Conversion Rates
- Insurance

4 — **Spring 2**
- Straight Line Graphs
- Ratio
- Proportion
- Constructions
- Congruence
- Similarity
- Algebraic Manipulation

5 — **Summer 1**
- Pythagoras Theorem
- Quadratic Graphs
- Probability
- Tree Diagrams
- Cubic, Reciprocal & Exponential Graphs (Extension)

6 — **Summer 2**
- Transformations
- Simultaneous Equations
- Trigonometry

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GCSE YEAR 10 MATHS (FOUNDATION)

1 — Autumn 1

- Algebraic Manipulation
- Equations
- Inequalities
- Formulae
- Quadratic Equations

2 — Autumn 2

- Percentages
- Interest
- Ratio
- Scale
- Fractions

3 — Spring 1

- Place Value
- Four Operations
- Straight Line Graphs
- Probability
- Rounding & Estimation

4 — Spring 2

- Perimeter
- Area
- Volume
- Representing & Interpreting Data
- Quadratics & Cubic Graphs

5 — Summer 1

- Angles
- Statistical Diagrams
- Vectors

6 — Summer 2

- Properties of Number
- Pythagoras
- Trigonometry
- Simultaneous Equations

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QueenElizabeth's School QE MATHS

GCSE YEAR 11 MATHS (FOUNDATION)

1 Autumn 1

- Ratio
- Proportion
- Area
- Volume
- Similarity
- Congruence

2 Autumn 2

- Sequences
- Proof
- Standard Form
- Circles
- Set Notation
- Probability

3 Spring 1

- Function Machines
- Graphs
- Equations
- Formulae
- Rates

4 Spring 2

Angles
Bearings
Trigonometry
Constructions & Loci
Transformations

5 Summer 1

Revision

6 Summer 2

Examination

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GCSE YEAR 10 MATHS (HIGHER)

1

Autumn 1

- Algebraic Manipulation
- Equations
- Inequalities
- Formulae
- Quadratic Equations
- Completing the Square (H)
- Quadratic Formula (H)
- Quadratic Inequalities (H)
- Graphing Inequalities (H)

2

Autumn 2

- Percentages
- Interest
- Ratio
- Scale
- Fractions
- Algebraic Fractions (H)

3

Spring 1

- Non Calculator Methods
- Straight Line Graphs
- Perpendicular Lines (H)
- Probability
- Conditional Probability (H)
- Rounding & Estimation
- Calculating with Bounds (H)

4

Spring 2

- Perimeter
- Area
- Volume
- Representing & Interpreting Data
- Quadratics, Cubic, Reciprocal & Exponential Graphs
- Equation of Circles (H)
- Velocity Time Graphs (H)

5

Summer 1

- Angles
- Statistical Diagrams
- Vectors
- Further Statistical Diagrams (H)
- Vector Proofs (H)

6

Summer 2

- Properties of Number
- Pythagoras
- Trigonometry
- Simultaneous Equations
- Surds (H)
- 3d Pythag & Trig (H)
- Quadratic Simultaneous Equations (H)

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GCSE YEAR 11 MATHS (HIGHER)

1

Autumn 1

- Ratio
- Proportion
- Area
- Volume
- Similarity
- Congruence
- Congruence Proofs (H)

2

Autumn 2

- Sequences
- Proof
- Standard Form
- Circle Theorems (H)
- Set Notation
- Vector Proofs (H)
- Quadratic Sequences (H)

3

Spring 1

- Functions (H)
- Graphs
- Equations
- Formulae
- Rates
- Completing the Square (H)

4

Spring 2

- Angles
- Bearings
- Trigonometry
- Constructions & Loci
- Transformations
- Non Right Angled Trigonometry (H)

5

Summer 1

Revision

6

Summer 2

Examination

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ALEVEL – MATHS

Yr 12 Autumn 1 (Pure)

- Algebraic Expressions
- Quadratics
- Equations & Inequalities
- Straight Line Graphs
- Circles
- Trigonometric Ratios
- Trig Identities & Equations

Year 12 Autumn 2 (Pure)

- Graphs & Transformations
- Algebraic Methods
- Binomial Expansion
- Vectors
- Differentiation
- Integration
- Exponentials & Logarithms

Year 12 Spring 1 (Applied)

- Data Collection
- Measures of Location & Spread
- Representations of Data
- Correlation
- Modelling in Mechanics
- Constant Acceleration

Year 12 Spring 2 (Applied)

- Probability
- Statistical Distributions
- Hypothesis Testing
- Forces & Motion
- Variable Acceleration

Year 12 Summer 1

- Revise
- Mock Exams
- Reteach

Year 12 Summer 2 (Pure Yr13 Content)

- Algebraic Methods
- Functions & Graphs
- Sequences & Series

Year 13 Autumn 1 (Pure)

- Binomial Expansion
- Radians
- Trigonometric Functions
- Trigonometry & Modelling
- Mock Exams

Year 13 Autumn 2 (Pure)

- Parametric Equations
- Differentiation
- Numerical Methods
- Integration
- Vectors

Year 13 Spring 1 (Applied)

- Regression, Correlation & Hypothesis Testing
- Conditional Probability
- Moments
- Forces & Friction
- Mock Exams

Year 13 Spring 2 (Applied)

- The Normal Distribution
- Projectiles
- Applications of Forces
- Further Kinematics

Year 13 Summer 1

- Revision
- Final Exams

Year 13 Summer 2

- Revision
- Final Exams

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