LEARNING JOURNEY

NBH S

End of Year (2 Papers)

Destination
- **A Level Maths – Year 2**
- **A Level Further Maths – Year 2**

Skills to succeed…
- Resilience
- Tenacity
- Problem solving
- Logic

STATISTICS
- Representations of data
- Correlation

PURE
- Exponentials and logarithms
- Graphs and transformations
- Circles
- Functions and graphs (Y13)
- Partial fractions (Y13)

Summer

Spring

PURE
- Integration
- Trigonometric ratios
- Trigonometric identities and equations
- Straight line graphs
- Exponentials and logarithms

STATISTICS
- Probability
- Data collection
- Hypothesis testing

MECHANICS
- Vectors (Pure)
- Variable acceleration

MOCK 2

MOCK 1

MECHANICS
- Modelling in mechanics
- Constant acceleration
- Forces and motion

STATISTICS
- Binomial expansion (Pure)
- Measures of location and spread
- Statistical distributions

PURE
- Algebraic expressions
- Quadratics
- Equations and inequalities
- Algebraic methods
- Differentiation

BASELINE

Autumn

LEARNING JOURNEY

NBH S

End of Year (3 Papers)

Destination
- **University**
- **Apprenticeship**
- **Work**

Skills to succeed…
- Resilience
- Tenacity
- Problem solving
- Logic

MECHANICS
- Moments
- Applications of forces

STATISTICS
- Parametric equations (Pure)

PURE
- Trigonometry and modelling
- Proof

Summer

PURE
- Integration
- Sequences and series
- Radians
- Trigonometry and modelling
- Numerical methods

STATISTICS
- Conditional probability
- Regression, correlation and hypothesis testing
- Numerical methods (Pure)

MECHANICS
- Applications of forces
- Further kinematics
- Moments

MOCK 2

Spring

MOCK 1

MECHANICS
- Forces and friction
- Applications of forces
- Projectiles
- Vectors (Pure)

STATISTICS
- Binomial expansion (Pure)
- The normal distribution

PURE
- Radians
- Trigonometric functions
- Trigonometry and modelling
- Differentiation
- Integration

Autumn

LEARNING JOURNEY

NBH S

End of Year (2 Papers)

Destination
- **A Level Maths – Year 2**
- **A Level Further Maths – Year 2**

Skills to succeed…
- Resilience
- Tenacity
- Problem solving
- Logic

TWO OPTIONS MODULES

A specific learning journey for the two options modules will be issued once the student has confirmed their two modules

CORE PURE
- Vectors
- Volume of revolution

Summer

CORE PURE
- Series
- Roots of polynomials
- Proof by induction
- Vectors

Spring

TWO OPTIONS MODULES

A specific learning journey for the two options modules will be issued once the student has confirmed their two modules

MOCK 2

MOCK 1

TWO OPTIONS MODULES

A specific learning journey for the two options modules will be issued once the student has confirmed their two modules

CORE PURE
- Complex numbers
- Argand diagrams
- Matrices
- Linear transformations

BASELINE

Autumn

LEARNING JOURNEY

NBH S

End of Year (3 Papers)

Destination
- **University**
- **Apprenticeship**
- **Work**

Skills to succeed…
- Resilience
- Tenacity
- Problem solving
- Logic

TWO OPTIONS MODULES
- REVISION

CORE PURE
- REVISION

Summer

CORE PURE
- Hyperbolic functions
- Methods in calculus
- Methods in differential equations
- Polar coordinates
- Volumes of revolution
- Modelling with differential equations

TWO OPTIONS MODULES

A specific learning journey for the two options modules will be issued once the student has confirmed their two modules

MOCK 2

Spring

MOCK 1

TWO OPTIONS MODULES

A specific learning journey for the two options modules will be issued once the student has confirmed their two modules

CORE PURE
- Complex numbers
- Hyperbolic functions
- Polar coordinates
- Series

Autumn

LEARNING JOURNEY

NBH S

End of Year (2 Papers)

Destination
- **A Level Maths – Year 2**
- **A Level Further Maths – Year 2**

Skills to succeed…
- Resilience
- Tenacity
- Problem solving
- Logic

FURTHER STATISTICS 1
- Hypothesis testing
- Chi-squared tests

CORE PURE
- Vectors
- Volume of revolution

Summer

CORE PURE
- Series
- Roots of polynomials
- Proof by induction
- Vectors

FURTHER STATISTICS 1
- Discrete random variables
- Poisson distributions

DECISION 1
- Linear programming
- Critical path analysis

Spring

MOCK

DECISION 1
- Algorithms
- Graphs and networks
- Algorithms on graphs
- Route inspection

FURTHER STATISTICS 1
- Discrete random variables

CORE PURE
- Complex numbers
- Argand diagrams
- Matrices
- Linear transformations

BASELINE

Autumn

LEARNING JOURNEY

NBH S

End of Year (3 Papers)

Destination
- **University**
- **Apprenticeship**
- **Work**

Skills to succeed…
- Resilience
- Tenacity
- Problem solving
- Logic

DECISION 1
- Moments
- Applications of forces

FURTHER STATISTICS 1
- Representations of data
- Correlation
- Regression, correlation and hypothesis testing

CORE PURE
- Modelling with differential equations

Summer

CORE PURE
- Hyperbolic functions
- Methods in calculus
- Polar coordinates
- Volumes of revolution
- Methods in differential equations

FURTHER STATISTICS 1
- Chi-squared tests
- Central limit theorem
- Probability generating functions
- Quality of tests

DECISION 1
- Critical path analysis

Spring

MOCK 1

DECISION 1
- The travelling salesman problem
- The simplex algorithm

FURTHER STATISTICS 1
- Geometric and negative binomial distributions
- Hypothesis testing

CORE PURE
- Complex numbers
- Hyperbolic functions
- Polar coordinates
- Series

BASELINE

Autumn