Mathematics Learning Journey KS4 Higher

Collaborative – Learning is done with you, not to you

Accountable – Ask for help when needed

Resilience - When making mistakes try again and again

Independent – Aim for independence in your learning

Assertive - Active learners, not spectators

Courageous – Be prepared to take risks

Courage

YEAR 11

- **Sequences**: Quadratic Sequences; Special Sequences; Linear Sequences
- **Units and Proportionality**: Compound Units; Converting Between Units; Direct and Inverse Proportion; Rates of Change; Growth and Decay
- **GCSE Exam**: Interventions; Revision sessions
- **Combined Events**: Conditional Probability; Possibility Spaces; Tree Diagrams; Sets
- **Pythagoras and Trigonometry**: Vectors; Standard Trigonometry; Advanced Trigonometry; Pythagoras' Theorem
- **Graphs 2**: Real life Graphs; Gradients and areas under graphs; Equation of a circle; Exponential and Trigonometric Functions; Cubic and Reciprocal Functions
- **Calculations 2**: Standard Form; Calculating with Roots and Indices; Exact Calculations
- **Handling Data 2**: Time Series; Scatter Graphs and Correlation; Box Plots and Cumulative Frequency Graphs; Averages and Spread 2; Frequency Diagrams
- **Working in 3D**: Volume and Surface Area; Volume of a Prism; 3D Shapes
- **Ratio and Proportion**: Proportion; Ratio; Percentage Change
- **Factors, Powers and Roots**: Factors and Multiples; Powers and Roots; Surds
- **Graphs 1**: Equation of a straight line; Kinematic Graphs; Linear and Quadratic Functions; Properties of Quadratic Functions
- **Circles and constructions**: Constructions and Loci; Circle Theorems; Arcs and Sectors; Naming parts of Circles
- **Equations and Inequalities**: Inequalities; Simultaneous Equations; Approximate Solutions; Quadratic Equations; Solving Linear Equations
- **Measures and Accuracy**: Calculator Methods; Measures and Accuracy; Estimation and Approximation
- **Probability**: Mutually Exclusive Events; Probability Experiments; Theoretical Probability
- **Working in 2D**: Area of 2d Shapes; Transformations; Measuring Lengths and Angles
- **Handling Data 1**: Representing Data 1; Averages and Spread 1; Sampling; Organising Data
- **Fractions, Decimals and Percentages**: Calculations with Fractions; Fractions, Decimals and Percentages; Fractions and Percentages; Recurring Decimals
- **Formulae and Functions**: Expanding and Factorising 2; Functions; Formulae; Equivalences in Algebra
- **Angles and Polygons**: Congruence and Similarity; Angles in Polygons; Angles and Lines; Triangles and Quadrilaterals
- **Expressions**: Algebraic Fractions; Expanding and Factorising 1; Indices; Simplifying Expressions
- **Calculations 1**: Multiplying and Dividing; Place Value and Rounding; Adding and Subtracting

YEAR 10

End of Key Stage Assessment

KS3

WEOBLEY