Think, Solve, Link

Summer

Probability, Graphs, Transformations, Statistics, Units

Year 7
- Number Systems
- Investigating Statistics
- Transformations
- Coordinates and Patterns
- Probability

Year 8
- Introducing Compound Units
- Big Data
- 3D Shapes
- Finding the Equation of a Line
- Probability Diagrams

Year 9
- Using Compound Units
- Collecting Data
- Similarity and Congruence
- Quadratic Graphs
- Tree Diagrams

Year 10
- Inequalities
- Analysing Data
- Further Transformations
- Curved Graphs
- Simultaneous Equations

Year 11
- Post-16 Destinations
- GCSE EXAM

Spring

Proportionality, Sequences, Measuring shapes, Triangles

Year 7
- Exploring Fractions
- Investigating Sequences
- Area and Perimeter
- Proportional Thinking

Year 8
- Pythagoras' Theorem
- Solving Problems with Sequences
- Exploring Circle Measures
- Modelling Proportion

Year 9
- Trigonometry in Right Angled Triangles
- Mapping Sequences
- Surface Area of Solids
- Day-to-Day Proportion

Year 10
- Exploring Shape and Similarity
- Further Trigonometry
- Special Sequences
- Volume of Solids
- Reasoning with Proportion
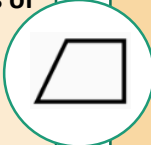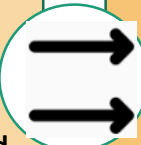
Year 11
- Revision

Autumn

Algebraic Manipulation, Calculations, FDP Equivalence, Solving, Angle Properties,

Year 7
- Comparing parts of a whole
- Properties of Shape
- Solving Number Problems
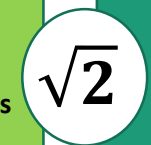- Rounding and Estimating
- Calculating
- Introducing Algebra

Year 8
- Calculating with Percentages
- Parallel Lines
- Constructing and Solving
- Standard Form
- Investigating Indices
- Expanding and Factorising

Year 9
- Fraction Calculations
- Maps and Scale Drawings
- Equations and Inequalities
- Exploring Number
- Non-Calculator Methods
- Investigating Quadratics

Year 10
- Financial Maths
- Rates of Change
- Quadratic Equations
- Surds and Indices
- Algebraic Fractions
- Algebraic Arguments

Year 11
- Loci and Constructions
- Further Graphs
- Vectors
- Investigating Circles
- Functions

x^2 $\sqrt{2}$

Year 7

Year 8

Year 9

Year 10

Year 11

Willingdon Community School
Maths Learning Journey