Please note the order of topics may vary slightly dependent on set.

YEAR 11

- Limits of Accuracy: Irrational numbers; Error intervals; Estimating; Bounds
- Sequences: Quadratic; Arithmetic; Geometric
- Graphs: Coordinate geometry; Rates of change; Other functions; Parallel & perpendicular lines
- Revision & Exam Preparation
- Length, Area & Volume: Vectors; Similarity; Congruence; Arcs & sectors; Converting units; Spheres; Cones & Pyramids; Prisms; Trigonometry
- Pythagoras: Right-angled triangles; 3D; Line segments
- Ratio & Proportional Reasoning: Growth & Decay; Direct proportion; Compound Measures; Inverse Proportion
- Statistics & Probability: Measures of spread; Venn diagrams; Probability trees; Comparing data; Sampling; Representing grouped data
- Transform-ations: Vectors; Similarity; Congruence; Combinations of

YEAR 10

- Sequences & Graphs: Averages & problem solving; Plotting graphs; Linear graphs; Arithmetic; Nth term
- Statistics: Frequency trees; Time series; Scatter graphs; Probability; Two-way tables; Venn diagrams; Frequency diagrams
- Number: Fraction review; Index laws; Standard index form
- Expression, Equations & Formulae: Inequalities; Quadratics; Rearranging formulae; Form & solve equations; Simultaneous equations
- Angles: Polygons; Bearings; Proof; Parallel lines
- Algebra: Inequalities; Indices; Rearrange formulae; Double brackets; Expand & simplify; Form & solve equations
- Percentages: Multipliers; Reverse percentages; Percentage change
- Ratio & Proportional Reasoning: Exchange rates; Best buys; Problems in context
- Area & Volume: Compound area; Prisms; Circles
- Constructions & Transformations: Loci; Construction; Translation; Enlargement; Plans & elevations; Reflection; Rotation
- Fractions: Word problems; Mixed numbers

YEAR 9

- Angles: Polygons; Parallel lines
- Probability: Probability scale; Calculating probability; Experimental Outcomes
- Equations & Expressions: Simplify; Use formulae; Expand; Factorise
- Linear Graphs: Gradient; Direct proportion; Solve equations; Plotting; Equation of a line
- Statistics: Pie charts; Compare data; Stem & leaf; Using tables; Scatter graphs
- Number: Use of calculator; HCF & LCM in context; Error intervals; Estimation; Laws of indices
- Real-life Graphs: Distance-time; Interpret; Conversion; Line graphs
- Ratio & Proportion: Proportion problems; Using ratio; Direct Proportion; Unit ratio
- Fractions, Decimals and Percentages: Four operations with fractions; Equivalence; Percentage increase & decrease; Mixed numbers; Ordering; Calculating with decimals
- Number Properties: Roots; Indices; Prime factors; Negatives; HCF & LCM

YEAR 8

- Expressions & Formulae: Writing formulae and expressions; Brackets; Substitution; Algebraic notation; Simplifying
- Sequences and Graphs: Coordinates; Straight-line graphs; Sequences
- Multiplicative Reasoning: Ratio; Proportion; Unitary method
- Angles: Measure and draw angles; Angle rules
- Shape: Perimeter; Area; Volume; Properties of shape; 3D shapes
- Transform ations: Rotation; Enlargement; Translation; Reflection

YEAR 7

- Fractions: Equivalent FDP; Fractions of amounts; Add & subtract
- Decimals: Measures; Rounding; Converting units; Four operations
- Number Skills: Powers & roots; Negatives; Factors, multiples ℙ Mental & written methods; Four operations
- Analysing & Displaying Data: Graphs; Averages; Tables

Benchmarker → Knowledge Organiser → Recall Test → Review Home works → Assessment → Review

The WHOLE Mathematics journey @ St George's Academy