



Cardinal Hume Catholic School

Department of Mathematics



Key Stage 4 Higher

Year 10

- Calculations, checking and rounding
- Indices, reciprocals and BIDMAS
- Factors, multiples, standard form, and surds
- Basic algebra
- Sequences
- Averages and range
- Representing data, scatter graphs
- Fractions and percentages

Assessment point 1

- Ratio and proportion
- Angle rules
- Pythagoras and trigonometry
- Graphs: the basics
- Linear graphs and coordinate geometry
- Quadratic, cubic and other graphs
- Perimeter, area and circles
- 3D shapes
- Accuracy and bounds

Assessment Point 2

Year 11

- Transformations
- Advanced data handling
- Quadratics and simultaneous equations
- Inequalities
- Probability
- Multiplicative reasoning
- Circle theorems
- Similarity and congruence
- Direct and inverse proportion

Assessment Point 1

- Algebraic methods
- Further trigonometry

- Constructions, loci and bearings
- Vectors and geometrical proof
- Non linear graphs
- Circle geometry
- Advanced graphs
- Graphs of trigonometric functions
- Collecting data

Assessment Point 2 will be in March of year 11