

# Craig Ormerod Associates LTD

## Subject Overview: Maths (KS4)

During KS4, pupils continue to build on their existing knowledge as part of their two-year GCSE course, which follows the AQA Examination Board course curriculum and is examined in the summer of Year 11.

The examination consists of three papers, which are all sat on different days.

- Paper 1: *(1.5 hrs; no calculator)*
- Paper 2 *(1.5 hrs; calculator allowed)*
- Paper 3 *(1.5 hrs; calculator allowed)*

### YEAR 10

#### Term #1

- Number
- Expressions and sequences
- Fractions, decimals and estimation
- Angles and polygons
- Collecting and recording data
- Algebra
- Decimals and rounding
- 2-D shapes
- Linear graphs
- Expressions and formulae
- Ratio and proportion
- Area and perimeter
- Transformations
- Probability
- Volume and surface area of prisms

#### Term #2

- Pythagoras' Theorem and trigonometry
- Graphs and equations
- Quadratic and simultaneous equations
- Area and volume
- Line diagrams and scatter graphs
- Indices

- Standard form and surds
- Similar shapes
- Sequences
- 3-D shapes
- Circles
- Constructions and loci
- Percentages
- Equations
- Inequalities

### **Term #3**

- Proportion
- Probability
- Advanced Pythagoras and trigonometry
- Transformations of functions
- Circle geometry
- Algebraic fractions and proof vectors
- Transformations
- Ratio and proportion

## **YEAR 11**

### **Term #1**

- Construction and loci
- Linear equations
- Percentages
- Graphs
- Ratio and proportion
- Transformations
- Data
- Inequalities and formula
- Algebra
- Decimals and rounding
- Angles
- Fractions
- Using a calculator

### **Term #2**

- Pythagoras' Theorem and trigonometry
- Graphs and equations
- Quadratic and simultaneous equations
- Area and volume

- Line diagrams and scatter graphs
- Indices
- Standard form and surds
- Similar shapes
- Sequences
- 3-D shapes
- Graphs
- Circles
- Constructions and loci
- Percentages
- Equations and inequalities

### **Term #3**

- Revision for final GCSE exams