

**SUBJECT:** Mathematics

**YEAR:** 9

**HEAD OF DEPARTMENT:** Mrs L Crowthers

**GROUPING POLICY:** Set by Ability (with Science)

### **COURSE CONTENT:**

Mathematics is taught in a scheme of work that allows students to learn their mathematics in a cycle of Discover, Consolidate and Assess. There are eight topic areas throughout the year and students are expected to be able to widen their knowledge of maths rather than just answer questions. Mathematical communication, mastery and problem solving are key throughout the course.

Students will begin the GCSE course in Term 6.

### **What will my child learn?**

The mathematical content in the lessons is based on the new National Curriculum and students will cover work on Number, Algebra, Ratio and Proportion, Geometry, Data and Probability.

Topics:

Calculations; geometric properties; algebraic manipulations; interpreting graphs and charts; length, area and volume; proportional measuring; right-angled triangles; GCSE linear graphs and angles.

### **What will homework look like?**

Students will have one piece of homework each week. This may be online or consolidating work just completed.

### **What enrichment opportunities are available?**

UKMT Junior Mathematic Challenge for gifted and talented students.

### **ASSESSMENT**

#### **How will my child's work be assessed?**

Students have three assessments during the year. Students will be expected to revise work from the previous two units but will also be tested on anything learned during the year. There is also a formal exam at the end of Year 9.