

## SCIENCE (TRIPLE) – Option

**Examination Board: AQA**

### **Syllabus content:**



Pupils will do three extra lessons of science per week giving a total of eight in Years 10 and 11.

This teaching group (called Triple Science) will do the core science course and additional courses as for non option science but will work through these units quicker. The course allows students to pursue an interest in an individual science.

In Year 11 'Triple Science' pupils will cover extra units, some of which are outlined below:

<b>BIOLOGY</b> – <i>Exchange of Materials, Transport and Microbiology</i>
• How do dissolved substances get into and out of animals and plants?
• How does exercise affect the exchanges taking place within the body?
• How are microorganisms used to make food and drink?
• How can we be sure we are using microorganisms safely?
<b>CHEMISTRY</b> – <i>Periodic Table, Acids and Bases and Water and Energy Calculations</i>
• How was the periodic table developed and how can it help us understand the reactions of elements?
• What is in the water we drink?
• How can we find the amounts of acids and alkalis in solutions?
• How do we identify and analyse substances?
<b>PHYSICS</b> – <i>Turning Forces, Light and Sound and Electromagnetism and Space</i>
• How do forces have a turning effect?
• What provides the centripetal force for planets and satellites?
• What is ultrasound and how can it be used?
• How do generators work?

### **Assessment:**

The assessment will be as for non option science but since the group will have studied extra units, each subject will be awarded as a separate GCSE so that these pupils will obtain:

1 GCSE Biology  
1 GCSE in Chemistry  
1 GCSE in Physics } – three 45-minute papers (tiered) containing structured questions for each subject available in January and June

Each separate GCSE will be based on GCSE Science, the GCSE Additional Science and the extra units covered in Year 11

**For further information please contact Mr D Whyman**