

**Whitworth Community High School  
Science Department**

**Teacher in Charge/Faculty Leader:** Mr. T. Kent

**Year 11 Single Sciences Learning Overview**

**Organisation of the classes:**

Pupils are placed in sets according to their ability and this is monitored and controlled through formal assessments throughout the year. They will have a different teacher for each science discipline.

**Key Concepts**

1. Develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
2. Develop understanding of the nature, processes and methods of science through different types of science enquiries to answer questions about the world around them
3. Understand the uses and implications of science

**What skills do I use in this subject?**

- Observing
- Predicting
- Questioning
- Investigating and experimenting
- Recognising patterns
- Planning
- Estimating and measuring
- Analysing and Evaluating

**What will you be learning?**

Pupils in Year 11 follow the AQA GCSE Syllabus which gives them a good grounding in the three sciences which will enable pupils to continue their studies at A-Level should they wish to.

There are 28 required practical experiments that each pupil must cover and these will be examined on the GCSE paper

Details of the specification can be found at  
<http://www.aqa.org.uk/subjects/science/gcse>

**How will you be learning?**

Through experiments and demonstrations  
By research (internet / books)  
Through whole class and small group discussion  
By independent learning  
Through quiet reflection  
By expressing ideas in writing

**How will your learning be assessed?**

You will complete a formal assessment each half term  
Formal half-year and full-year tests  
Informally through teacher observations with feedback

**Home Learning**

Regular home learning tasks will be set as required by the each class teacher. This will have a frequency of at least one per fortnight for each science discipline.

<b>Equipment needed?</b> Black & purple pen, pencil, ruler, calculator	<b>How can your parents support your learning?</b> Parents can help by discussing the topics you are doing and trying to link them to everyday situations. They are also encouraged to discuss research / assessments. Purchase recommended revision material.
<b>SMSC Links – Focus on Aspirations</b> Science can open up many career pathways as well as help provide solutions to problems humans may experience in the future. You could be the next Nobel Prize winner.	<b>What extra-curricular activities or enrichment opportunities are available?</b> School trips / Science Club / STEM activities / Science VLE