

Combined Science

Number of Exams:

6

Controlled Assessments:

0

What are the aims of this course?

The teaching style will be academic with aspects of vocational science. There is an emphasis on the importance of 'How Science Works' in the world at large as well as the laboratory. Students will cover a vast array of different subjects such as the importance of cells, chemical elements and forces and motion.

What will I learn?

Within Biology you will learn the cell structure and replication, how our bodies respond to infection, how plants will produce their own food and how we as humans control the chemical reactions happening in our bodies. For Chemistry, you delve into the atomic structure and how that determines reactivity, the structure of compounds and what the Earth consists of. Physics encompasses the inner workings of electrical circuits, our reliance on energy resources and the effect of forces on the movement and momentum of objects.

Course Outline

Unit Titles	Content	% Unit is Worth
Biology	Cell biology, Organisation, Infection and response, Bioenergetics, Homeostasis and response, Inheritance, variation and evolution, Ecology.	33%
Chemistry	Atomic structure and the periodic table, Bonding, structure, and the properties of matter, Quantitative chemistry, Chemical changes; and Energy changes, The rate and extent of chemical change, Organic Chemistry, Chemical analysis, Chemistry of the atmosphere and Using resources.	33%
Physics	Energy, Electricity, Particle model of matter, Atomic structure, Forces, Waves, and Magnetism and electromagnetism.	33%

Progression and Career Opportunities

Progression:

A Levels in Science but also provides transferrable skills for all subjects in further education. Apprenticeships.

Career Opportunities:

Medicine, Dentistry, Engineering, Veterinary Science are some examples. For those who have studied A Levels studies can also lead into apprenticeships and career in science related industries.

Further Information

AQA Website

<http://www.aqa.org.uk/subjects/science/gcse>

For more information contact:

Miss S Teare – Faculty Leader of Science

s.teare@thebarlowrhigh.co.uk

Mr A Sirett – Deputy Faculty Leader of Science

a.sirett@thebarlowrhigh.co.uk