



GCSE Triple Science: Biology, Chemistry & Physics (3 GCSE's)

Head of Faculty: Mrs J Johnson

Head of Years 10 & 11: Mrs A Miles-Williams

Email: A.Miles-Williams@barnwell.herts.sch.uk

Why study GCSE Triple Science?

The Triple Science programme offers both challenge and reward to the participants, exploring many fascinating areas of the subject with stimulating practical, theory and activity based lessons.

What does the course involve?

The new individual GCSE Sciences provides students with a more in-depth view of Biology, Chemistry and Physics, in terms of subject knowledge and understanding of scientific principles. It provides students with the skills required in an increasingly scientific world and an understanding of the ethical role of science in society.

The units taught in triple science are the same as in the GCSE combined science but with **increased** content.

How will I be assessed?

These GCSE's are studied in Years 10 and 11 and examined at the end of Year 11. Assessment will consist of six equally weighted papers (each one equating to 50% of overall grade), with two papers assessing each discipline (Biology, Chemistry and Physics). Each paper will last 1 hour 45 minutes.

Biology

Paper 1

Cell biology
Organisation
Infection and response
Bioenergetics

Paper 2

Homeostasis and response
Inheritance, variation and evolution
Ecology

Chemistry

Paper 1

Atomic structure and the periodic table
Bonding, structure and the properties of matter
Quantitative chemistry
Chemical changes

Energy changes

Paper 2

The rate and extent of chemical change
Organic chemistry
Chemical analysis
Chemistry of the atmosphere

Physics

Paper 1

Energy
Electricity
Particle model of matter
Atomic structure

Paper 2

Forces
Waves
Magnetism and
electromagnetism

What are my progression routes?

The course is the appropriate step for those who are interested in developing a firm interest in the subject and looking to gain access to science related careers and further education, including A-Level.