



Key Stage 4 Core Curriculum and Option Subjects

Science Additional / AQA

Additional science builds on the knowledge and understanding gained whilst studying core science and allows students to explore further the world around us. Students studying this specification will gain a second GCSE qualification which will allow them greater options of further study in this area when they reach Key

Course Content

Additional science consists of three modules that extend student knowledge of science and one practical controlled assessment unit.

Biology module2 covers plant and animal biology, to include; cells, photosynthesis and respiration.

Chemistry module2 covers atomic structure, bonding, rates of reactions and industrial processes.

Physics module2 covers forces, energy, electricity and radiation.

Assessment

Accreditation for one GCSE qualification will be based on three examinations and one practical controlled assessment unit, each contributing to 25% of the qualification

Progression

Passes in core and additional sciences allow progression to A level courses in chemistry, physics and biology or level 3 applied science. All of these qualifications' are valued by universities and employers.

BTEC Applied Science

Students will follow the BTEC Level 2 First Award in Principles of Applied Science and upon completion will continue to the BTEC First Award in the Applications of Science.

Upon successful completion of both of the above, students will gain 2 GCSE equivalent qualifications

Course Content

Students will study the following units:

Principles of Applied Science

Unit 1 – Principles of Science (External)

Unit 2 – Chemistry and Our Earth

Unit 3 – Energy and Our Universe

Unit 4 – Biology and Our environment

Applications of Science

Unit 5 – Applications of Chemical Substances

Unit 6 – Applications of Physical Science

Unit 7 – Health Applications of Life Science

Unit 8 – Scientific Skills

Assessment

Each qualification has three internally assessed coursework based units and one externally assessed examination. Each of these is worth 25% of the qualification