

**Please note: All students in the academy will study for this qualification except students who opt to do AQA Separate Science.**

## Course Outline

Students taking AQA Combined Science (Trilogy) will gain two GCSE qualifications. The course focuses on the knowledge and skills required by real scientists in their work. The qualification is linear meaning that the students will sit all examinations at the end of the course. The content for each subject area is listed below.

### Biology

1. Cell biology
2. Organisation
3. Infection and response
4. Bioenergetics
5. Homeostasis and response
6. Inheritance, variation and evolution
7. Ecology

### Chemistry

1. Atomic structure and the periodic table
2. Bonding, structure and the properties of matter
3. Quantitative chemistry
4. Chemical changes
5. Energy changes
6. The rate and extent of chemical change
7. Organic chemistry
8. Chemistry in the atmosphere
9. Energy changes
10. Using resources

### Physics

1. Energy
2. Electricity
3. Particle model of matter
4. Atomic Structure
5. Forces
6. Waves
7. Magnetism and electromagnetism

## Assessment

There are six examination papers: two for biology, two for chemistry and two for physics. Each paper will assess different topics and lasts for 1 hour 15 minutes. There are two tiers – Foundation and Higher.

Each paper has 70 marks and is worth 16.7% of the final grade. The type of questions included on each paper examination paper are multiple choice, structured, closed, short answer and open response.

## Progression/further study

Two GCSEs in Science subjects are the minimum requirement from post - 16 Colleges to go on to study A-Levels in Science which can then lead to Higher Education. This is also true of Level 3 vocational qualifications in Science.

Many other options at post - 16 require two good passes in GCSE Sciences. There are a huge number of possible careers that require good Science GCSEs. Further detail can be found at:

<http://www.sciencecareerpathways.com/a-z-of-roles/>