

# Core Subject: Science

Science is an exciting practical subject that is always changing. As well as learning about our bodies, the world around us and engineering, Science helps our students to solve problems, debate issues and work as a team.

## What will I learn?

### Biology

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

### Chemistry

8. Atomic structure and the periodic table
9. Bonding, structure, and the properties of matter
10. Quantitative chemistry
11. Chemical changes
12. Energy changes
13. The rate and extent of chemical change
14. Organic chemistry
15. Chemical analysis
16. Chemistry of the atmosphere
17. Using resources

### Physics

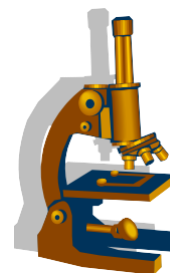
18. Energy
19. Electricity
20. Particle model of matter
21. Atomic structure
22. Forces
23. Waves
24. Magnetism and electromagnetism

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## Do I need to have certain qualities/skills to do this subject?

- To apply science that we learn in class to the outside world.
- To plan and carry out scientific investigations.
- To interpret data and draw conclusions.
- To evaluate scientific methods.
- To apply literacy and numeracy skills.



## Does this lead to a qualification?

Yes, all students will gain 2 GCSEs in Science. Science is accredited by the Examination Board AQA.

## How is this qualification assessed?

There are six papers: two biology, two chemistry and two physics. Each of the papers will assess knowledge and understanding from distinct topic areas. Each paper lasts 1hr 15 minutes. These are all 70 marks each and contain multiple choice, structured, closed short answer, and open response.

**Format of exams are subject to change.**

## What can I do with this qualification?

GCSE science will allow you to go on to do A-level Science, diplomas, BTEC and apprenticeships. Science opens up a wide variety of careers including; medicine, engineering, nursing, dentistry, midwifery, teaching, health and social work, forensic science and laboratory in many industries. Science also provides a good foundation for many trades such as plumbing, electrician work and construction. A good understanding of Science will also help in the personal care sector such as the hair and beauty industry.