

Aiming high with Science at Hellesdon High School

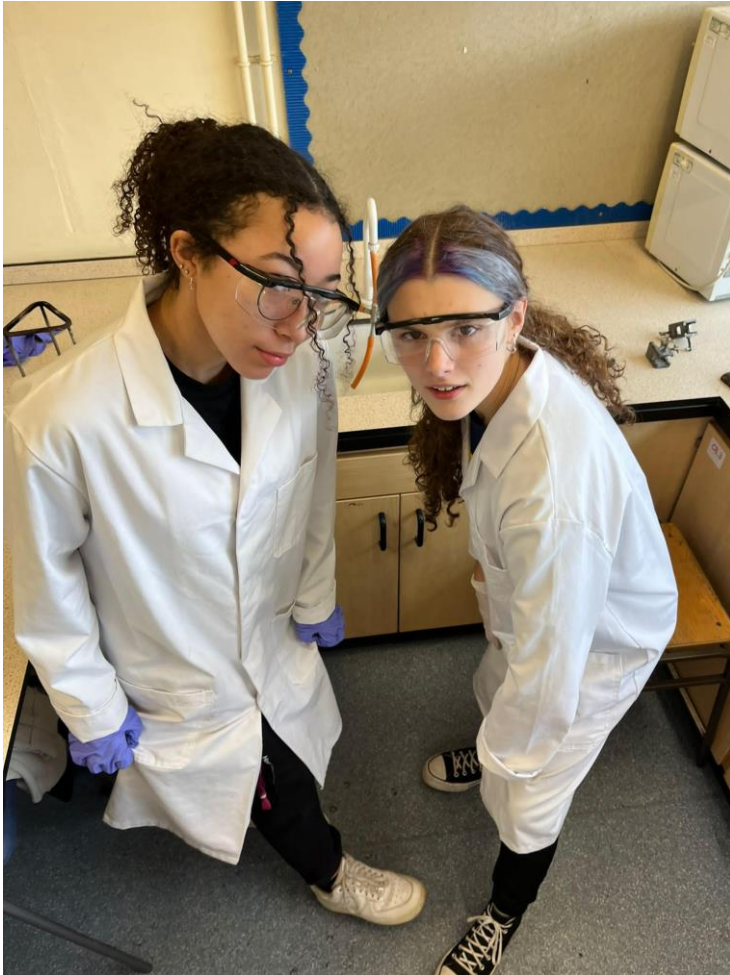


Science combined counts for 2 GCSE's.

Our students go on to study and have careers using their science Qualification.

Medicine
Nanotechnology
Oil industry
Physiotherapy
etc

We support our students



- ✓ **A high quality curriculum tailored for our students.**
- ✓ **Online support and challenge.**
- ✓ **Challenging and a hands on approach to learning.**
- ✓ **STEM and out of school opportunities**
- ✓ **Well trained high quality specialist teachers.**
- ✓ **Excellent laboratory resources**
- ✓ **Approachable teaching staff.**

The aim of Science is to...

To stimulate curiosity, interest and enjoyment in science.

To develop scientific understanding through practical techniques.

To develop an understanding of 'how science works.'

To understand the importance of science in the real world.

To explore social and ethical scientific considerations.

Career variety.



Studying Combined science (trilogy) at HHS

What **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**

Biology End of year exams

Biology Paper 1

What's assessed

Biology topics 1–4: Cell Biology; Organisation; Infection and response; and Bioenergetics.

How it's assessed

- Written exam: 1 hour 15 minutes
- Foundation and Higher Tier
- 70 marks
- 16.7% of GCSE

Questions

Multiple choice, structured, closed short answer, and open response.

Biology Paper 2

What's assessed

Biology topics 5–7: Homeostasis and response; Inheritance, variation and evolution; and Ecology.

How it's assessed

- Written exam: 1 hour 15 minutes
- Foundation and Higher Tier
- 70 marks
- 16.7% of GCSE

Questions

Multiple choice, structured, closed short answer, and open response.

Chemistry End of year exams

Chemistry Paper 1

What's assessed

Chemistry topics 8–12: Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry; Chemical changes; and Energy changes.

How it's assessed

- Written exam: 1 hour 15 minutes
- Foundation and Higher Tier
- 70 marks
- 16.7% of GCSE

Questions

Multiple choice, structured, closed short answer, and open response.

Chemistry Paper 2

What's assessed

Chemistry topics 13–17: The rate and extent of chemical change; Organic chemistry; Chemical analysis; Chemistry of the atmosphere; and Using resources.

How it's assessed

- Written exam: 1 hour 15 minutes
- Foundation and Higher Tier
- 70 marks
- 16.7% of GCSE

Questions

Multiple choice, structured, closed short answer, and open response.

Physics End of year exams

Physics Paper 1

What's assessed

Physics topics 18–21: Energy; Electricity; Particle model of matter; and Atomic structure.

How it's assessed

- Written exam: 1 hour 15 minutes
- Foundation and Higher Tier
- 70 marks
- 16.7% of GCSE

Questions

Multiple choice, structured, closed short answer, and open response.

Physics Paper 2

What's assessed

Physics topics 22–24: Forces; Waves; and Magnetism and electromagnetism

How it's assessed

- Written exam: 1 hour 15 minutes
- Foundation and Higher Tier
- 70 marks
- 16.7% of GCSE

Questions

Multiple choice, structured, closed short answer, and open response.

Support for your revision

1. All science support will be found on google classroom
2. We will provide videos, Seneca links but most importantly:-
3. You will be provided with practice papers and answers. (parents and guardians can help here and test your child).
4. We recommend one paper per evening and self mark it
5. It is important you write in the corrections and review it.
6. You are aiming for over 50% correct each time you practice.
7. After school revision sessions will be advertised.
8. Use Science C6 for a quiet place to revise after school or lunchtimes.
9. Revision guides have been available for over a year.
10. Pop in and see us for any issues or questions as you go through the practice papers.

