Aiming high with Science at Hellesdon High School

Science Triple counts for 3 GCSE's.

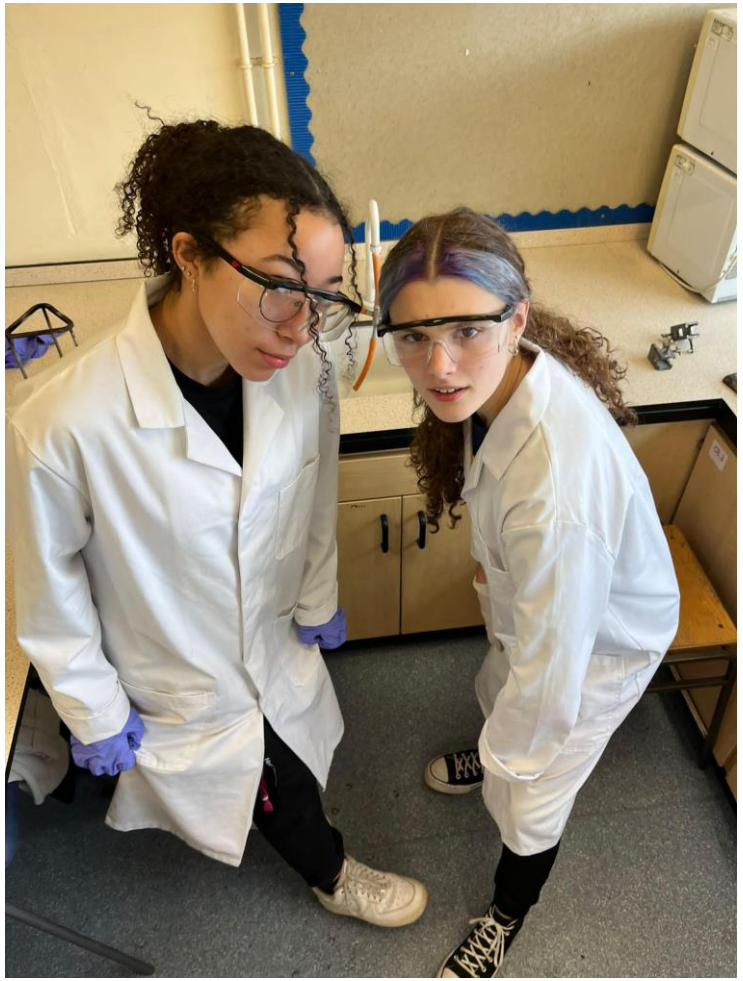
All of our science teachers are scientists.

Aiming high with Science at Hellesdon High School

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

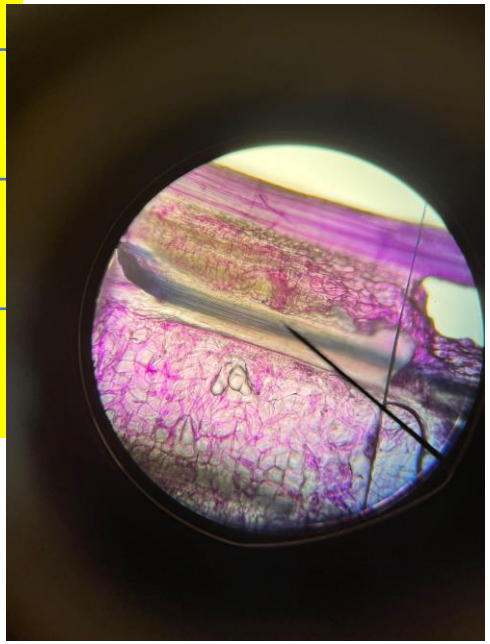
Medicine
Nanotechnology
Oil industry
Physiotherapy
etc

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 Triple Science at HHS

Biology

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

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. Chemical analysis
9. Chemistry of the atmosphere
10. Using resources

Physics

1. Energy
2. Electricity
3. Particle model of matter
4. Atomic structure
5. Forces
6. Waves
7. Magnetism and electromagnetism
8. Space physics (physics only)

Biology End of year exams

Paper 1

What's assessed
Topics 1–4: Cell biology; Organisation; Infection and response; and Bioenergetics.

How it's assessed
- Written exam: 1 hour 45 minutes
- Foundation and Higher Tier
- 100 marks
- 50% of GCSE

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

Paper 2

What's assessed
Topics 5–7: Homeostasis and response; Inheritance, variation and evolution; and Ecology.

How it's assessed
- Written exam: 1 hour 45 minutes
- Foundation and Higher Tier
- 100 marks
- 50% of GCSE

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

Chemistry End of year exams

Paper 1:

What's assessed
Topics 1–5: 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 45 minutes
- Foundation and Higher Tier
- 100 marks
- 50% of GCSE

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

Paper 2:

What's assessed
Topics 6–10: 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 45 minutes
- Foundation and Higher Tier
- 100 marks
- 50% of GCSE

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

Physics End of year exams

Paper 1:

What's assessed
Topics 1-4: Energy; Electricity; Particle model of matter; and Atomic structure.

How it's assessed
- Written exam: 1 hour 45 minutes
- Foundation and Higher Tier
- 100 marks
- 50% of GCSE

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

Paper 2:

What's assessed
Topics 5-8: Forces; Waves; Magnetism and electromagnetism; and Space physics.
Questions in paper 2 may draw on an understanding of energy changes and transfers due to heating, mechanical and electrical work and the concept of energy conservation from Energy and Electricity.

How it's assessed
- Written exam: 1 hour 45 minutes
- Foundation and Higher Tier
- 100 marks
- 50% 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.