

Why Study Science?

Why study science:

Science is a subject, yes, but it's also a way of thinking: science graduates have been trained to think critically, research properly and be guided by the evidence. These are critical workplace skills and employers value the creativity and problem-solving skills of science graduates.



Teignmouth Community School

Be the best version of yourself



Work Hard



Be Kind



Join In

Why Study Science?

Why do we study science?

1. To understand how and why things work
2. To understand the world around us and new technologies
3. To learn practical skills
4. Transferable skills
5. Career opportunities



What key topics will I study?

	Combined science	Separate science
Tiers	Foundation + higher	
Subjects	Biology, chemistry, physics	
Number of exams	6	6
Length of each exam	1 hr 15 mins	1 hr 45 mins
Number of marks	70	100
Number of GCSEs	2	3
% each paper contributes	33%	50%



What key topics will I study?

Combined science

Biology

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

Separate sciences

- 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



What key topics will I study?

Combined science

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

Separate sciences

- 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



What key topics will I study?

Combined science

Physics

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

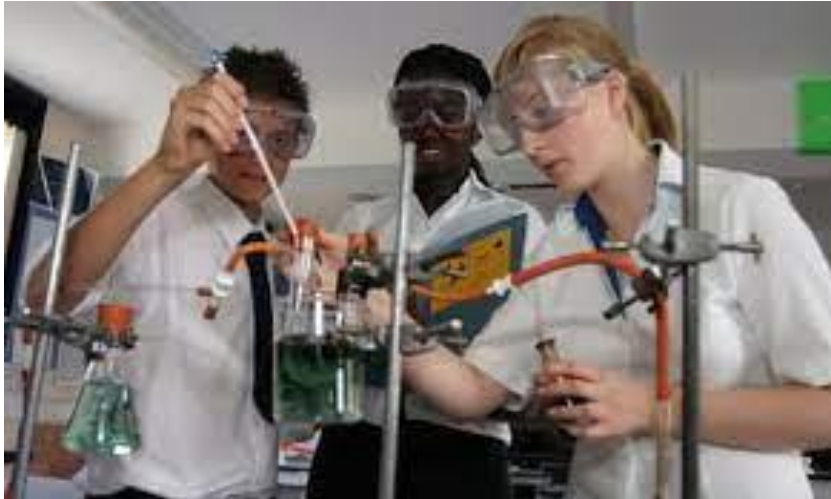
Separate sciences

- 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)



What key topics will I study?

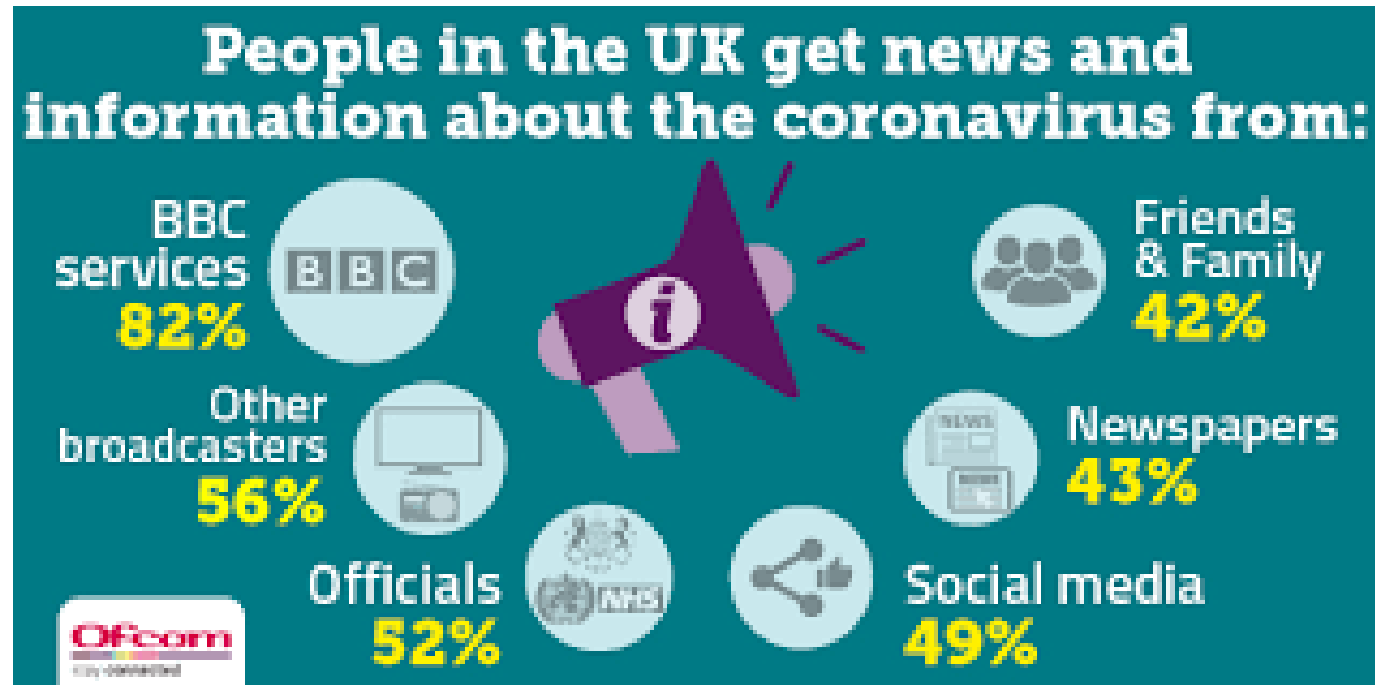
More curriculum time, so a lot more experiments.



What skills will I develop?

Students will develop transferable skills that are useful outside of science and directly applicable to the world of work including:

- Investigative skills
- Problem solving
- Research
- Decision Making
- Mathematical Skills
- Analytical Skills
- Communication Skills
- Critical thinking



Why Study Science?

Career opportunities

1. Universities and colleges prefer you to have separate sciences
2. Careers that these qualifications can lead to with further training and study include:
 - Sports and fitness (nutritionist, personal trainer)
 - Engineering and architecture
 - Medicine and health - nurse, dentist, doctor, radiologist etc.
 - The police and emergency services (paramedic, crime scene investigator or police officer)
 - And many other potential careers



Why Study Science?

1. No extra topics (except space), you just learn them in more detail
 2. Transferable skills
 3. Higher pass rate
4. Better prepares you for A Level science
5. Preferred by universities and colleges
6. Links to well paid in demand careers

