GCSE Science at Holy Family



When do I start GCSE Science?

Students start their GCSE science course in January of year 9. This allows them to learn the key foundational concepts with plenty of time to allow them to access the course more easily in years 10 and 11.

What course do I do for science?

Edexcel Combined Science (9-1)

How many GCSEs will I get?

GCSE Combined science is a double award subject, this means the students will gain 2 GCSE grades for science.

What tier will I do?

Students will sit either the higher or foundation tier paper. The foundation tier paper will allow them to access grades 1-5 and the higher tier papers will allow them to access grades 4-9. This will be decided based on their predicted grades and their performance throughout their assessments during the course.

What will my exams look like?

Students will sit 6 exam papers at the end of year 11. They will sit 2 biology, 2 chemistry and 2 physics papers

Calculator

Casio Scientific Calculator FX-83GTCW

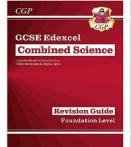
We recommend this calculator as it has all the functions needed for students to succeed. We will be using this model when explaining the use of calculators in lessons. It is essential that you are completely familiar with your calculator before sitting exams.

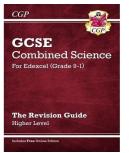
It is available online and in shops like WH Smiths and most supermarkets (it is currently £10-£15)



Revision guides

If you wish to buy a revision guide so you can start working towards your exams there are 2 different ones we recommend. You would only need 1 of them.





CGP GCSE Edexcel Combined Science



Pearson GCSE Edexcel Combined Science If you are unsure of which tier you need to buy, ask your science teacher.

Paper 1: Biology 1

Topics

Genetics

- 1. Key concepts in biology
- 2. Cells and control
- 3. Genetics
- Natural selection and genetic modification
- 5. Health, disease and the development of medicine

uk/bitesize/topics/z

xyggdm

GCSE Pod Higher



https://members.gcsepod.com/share d/playlists/playlist/109844

GCSE Pod Foundation



Торіс	BBC Bitesize	Topic	BBC Bitesize	
Key concepts in biology	https://www.bbc.co. uk/bitesize/topics/z y9ww6f	Natural selection and genetic modification	https://www.bbc.co. uk/bitesize/topics/zq pyy4j	
Cells and control	https://www.bbc.co. uk/bitesize/topics/z pg997h	Health, disease and the development of medicine	https://www.bbc.co. uk/bitesize/topics/z8 xppbk	
	https://www.bbc.co.			

Paper 2: Chemistry 1

Topics

- 1. Key concepts in chemistry
- 2. States of matter and mixtures
- 3. Chemical changes
- Extracting metals and equilibria

GCSE Pod Higher



https://members.gcsepod.com/share d/playlists/playlist/109843

GCSE Pod Foundation



Topic	BBC Bitesize	
Key concepts in chemistry	https://www.bbc.co. uk/bitesize/topics/z w6nng8	
States of matter and mixtures	https://www.bbc.co. uk/bitesize/topics/z 9766yc	
Chemical changes	https://www.bbc.co. uk/bitesize/topics/z gd77p3	

Topic	BBC Bitesize	
Extracting metals and equilibria	https://www.bbc.co. uk/bitesize/topics/z3 kjjty	
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Paper 3: Physics 1

Topics

- 1. Key concepts of physics
- 2. Motion and forces
- 3. Conservation of energy
- 4. Waves
- Light and the electromagnetic spectrum
- 6. Radioactivity

GCSE Pod Higher



https://members.gcsepod.com/share d/playlists/playlist/109855

GCSE Pod Foundation



Торіс	BBC Bitesize	Topic	BBC Bitesize	
Key concepts of physics	https://www.bbc.co. uk/bitesize/topics/z 82ttv4	Waves	https://www.bbc.co .uk/bitesize/topics/z sb44qt	
Motion and forces	https://www.bbc.co. uk/bitesize/topics/zc w22nb	Light and the electromagnetic spectrum	https://www.bbc.co .uk/bitesize/topics/z pvrrwx	
Conservation of energy	https://www.bbc.co. uk/bitesize/topics/z 39ww6f	Radioactivity	https://www.bbc.co .uk/bitesize/topics/z xnvv9q	

Paper 4: Biology 2

Topics

, control and

homeostasis

- 1. Key concepts in biology
- 2. Plant structures and their functions
- 3. Exchange and transport in animals
- 4. Ecosystems and material cycles

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GCSE Pod Higher



https://members.gcsepod.com/share d/playlists/playlist/109848

GCSE Pod Foundation



Topic	BBC Bitesize		Торіс	BBC Bitesize	
Key concepts in biology	https://www.bbc.co. uk/bitesize/topics/z y9ww6f		Exchange and transport in animals	https://www.bbc.co. uk/bitesize/topics/zsr kk2p	
Plant structures and their functions	https://www.bbc.co. uk/bitesize/topics/zc qxxfr		Ecosystems and material cycles	https://www.bbc.co. uk/bitesize/topics/ztv rrwx	
Animal coordination	https://www.bbc.co.	国际数国 AXXXXX			

Paper 5: Chemistry 2

Topics

- 1. Key concepts in chemistry
- 2. Groups in the periodic table
- 3. Rates of reaction and energy changes,
- 4. Fuels and Earth science

GCSE Pod Higher



https://members.gcsepod.com/share d/playlists/playlist/172926

GCSE Pod Foundation



Торіс	BBC Bitesize	
Key concepts in chemistry	https://www.bbc.co. uk/bitesize/topics/z w6nng8	
Groups in the periodic table	https://www.bbc.co. uk/bitesize/topics/zs g997h	
Rates of reaction and energy changes,	https://www.bbc.co. uk/bitesize/topics/zt yggdm	

C Bitesize	
/bitesize/topics/z2	
/	:ps://www.bbc.co. /bitesize/topics/z2 y4j

Paper 6: Physics 2

Topics

- 1. Key concepts of physics,
- 2. Energy Forces doing work
- 3. Forces and their effects,
- 4. Electricity and circuits,
- 5. Magnetism and the motor effect,
- 6. Electromagnetic induction,
- 7. Particle model
- 8. Forces and matter

GCSE Pod Higher



https://members.gcsepod.com/share d/playlists/playlist/109860

GCSE Pod Foundation



Торіс	BBC Bitesize	Topic	BBC Bitesize
Key concepts of physics	https://www.bbc.co. uk/bitesize/topics/z 82ttv4	Magnetism and the motor effect	https://www.bbc.co .uk/bitesize/topics/z 34ddxs
Energy - Forces doing work	https://www.bbc.co. uk/bitesize/topics/z q6nng8	Electromagnetic induction	https://www.bbc.co .uk/bitesize/topics/z s3ccj6
Forces and their effects	https://www.bbc.co. uk/bitesize/topics/z 8766yc	Particle model	https://www.bbc.co .uk/bitesize/topics/z ts33k7
Electricity and circuits	https://www.bbc.co. uk/bitesize/topics/zc d77p3	Forces and matter	https://www.bbc.co .uk/bitesize/topics/z 2tssrd