

## Key Stage 4 Science Curriculum Overview

- The core KS4 Science Curriculum is taught through 'Combined Science: Support Edition' *[Pearson publications]*. The programme incorporates textbook activities, digital resources, research activities and experimental practice to meet the requirements to prepare pupils for pathways to qualifications.
- The Entry Level qualification enables all students to have the opportunity to experience all three areas of the Science Curriculum. Once completed to a minimum of a Level 1 award, the students' individual Science pathway will be planned (in collaboration with the student, the Science teacher and SLT) according to their abilities, interests and personal goals (and with consideration to the amount of time study time they have available).

	Combined Science (offered to all students)								
Year/ Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2			
Yr. 1 Entry Level Certificate	Physics 1B: Waves and radiation	Chemistry 1B: Separating mixtures	Biology 1B: Health, disease and the development of medicines	Physics 1A: Forces, movement and energy	Chemistry 1A: Atoms, compounds and states of matter	Biology 1A: Cells, genetics, inheritance and modification			

If students decide to follow the Entry Level route after completing the Core Units, they can then complete the Entry Level Certificate in Further Science.

	Combined Science								
Year/	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2			
Term									
Yr. 2									
Entry Level	Biology 2A:	Chamiatus 24.	Dhusies 24.	Dieles: 2D.	Chemistry 2B:	Dhusies 2D.			
Certificate	Plants and	Chemistry 2A: Acids and metals	Physics 2A:	Biology 2B:	Elements and	Physics 2B:			
in Further	ecosystems	Acius and metals	Electricity and magnets	Human Biology	chemical reactions	Energy and particles			
Science									

Alternatively, after completing the Combined Science Core units and Entry level course, students (in collaboration with parents, the Science teacher and SLT) will have the opportunity to achieve further qualifications by completing one of the following focussed Science subject courses:

	(AQA) GCSE Physics									
Year/Term	Autumn 1	Summer 1	Summer 2							
Yr. 2 AQA Physics	Energy Electricity	Particle model of matter Atomic structure	Forces Waves	Magnetism and electromagnetism Space physics	Revision	Revision				

	(AQA) GCSE Biology									
Year/Term	m Autumn 1 Autumn 2 Spring 1 Spring 2 Summer 1 Su									
Yr. 2 AQA Biology	Cell biology	Organisation Infection and Response	Bioenergetics	Homeostasis and Response Inheritance, variation and evolution	Revision	Revision				

	(AQA) GCSE Chemistry									
Year/Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2				
Yr. 2 AQA Chemistry	Atomic Structure and the Periodic Table Bonding, structure and the properties of matter	Quantitative Chemistry Chemical changes	Energy Changes Organic Chemistry	Chemical Analysis Using resources	Revision	Revision				

	GCSE Astronomy								
Year/Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2			
GCSE Yr. 1	Topic 1: Planet Earth Topic 6: Celestial observation	Topic 2: The lunar disc Topic 9: Exploring the Moon	Topic 11: Exploring the Solar System	Topic 5: Solar System observation Topic 7: Early models of the Solar System	Topic 8: Planetary motion and gravity Topic 10: Solar astronomy	Topic 3: The Earth- Moon-Sun system Topic 4: Time and the Earth-Moon-Sun cycles			
GCSE Yr. 2	Topic 12: Formation of planetary systems Topic 13: Exploring starlight	Topic 14: Stellar evolution Topic 15: Our place in the Galaxy	Topic 16: Cosmology Revision	Revision	Revision	Revision			

	BTEC Level 1 Introductory Certificate in Land-based Studies								
Year/Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2			
Yr. 1	Core Unit - Being Organised	Core Unit - Being Organised	Core Unit - Developing a Personal Progression Plan	Core Unit - Developing a Personal Progression Plan	Choice Unit 1	Choice Unit 1			
Yr. 2	Choice Unit 2	Choice Unit 2	Choice Unit 3	Choice Unit 3					