

A close-up, low-angle shot of a microscope's objective lens. The lens is metallic and has the markings 'M1', '90', and '1.25' on it. The background is a soft, out-of-focus blue. The lighting is dramatic, with a warm glow emanating from the lens and a cool blue light from the background.

**COMBINED SCIENCE
TRILOGY**

AQA

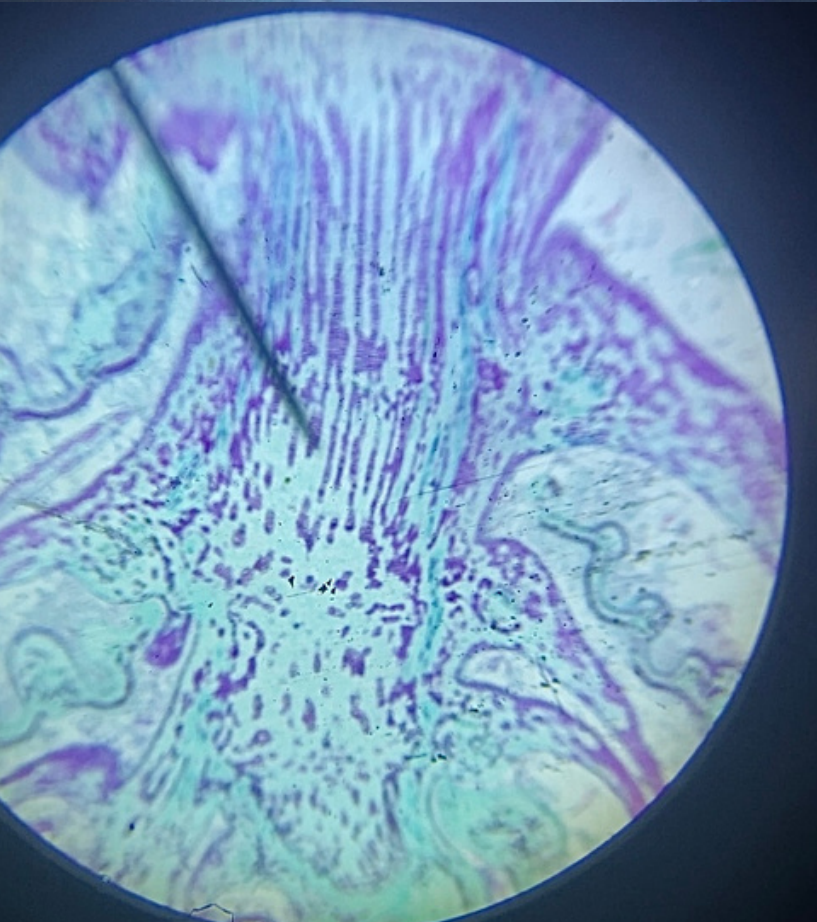
CURRICULUM OUTLINE

global academy



THE QUALIFICATION COURSE DESCRIPTION

Course Length: 2 years (worth 2 GCSEs)
Lessons: 5 per week
HOD: Neha.Kumar@globalacademy.com



There is Science behind everything, and our comprehensive curriculum is full of intrigue and wonderment. We want our students to engage with the concepts that govern the world, ask inquisitive questions and provide knowledgeable answers. The skills learnt through the curriculum not only equip our students to be successful in A-level Science qualifications but can also be applied within their Media qualification. Within the curriculum students work scientifically to investigate substantive knowledge. Students do this by learning to observe, problem solve, investigate hypothesis, develop methodologies, undertake practical application, work in teams, work independently, present their ideas, critically analyze claims, draw conclusions and evaluate theirs and others work. All skills that are valuable and applicable in the Media industry. We ask our students to apply their understanding of science to the wider world. We engage our learners in the learning of science and what it means to them. We link the learning to their lives and other subjects such as Math (key transferrable skills), English (core vocabulary and application) and Media (engaging and presenting) so that learning is multifaceted, and students can make links between all the disciplines both within science and as a wider curriculum.



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SUBJECT CONTENT

BIOLOGY

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

CHEMISTRY

8. Atomic structure & the periodic table
9. Bonding, structure, & the properties of matter
10. Quantitative chemistry
11. Chemical changes
12. Energy changes
13. The rate & 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 & electromagnetism



REQUIRED PRACTICALS

Students complete 21 core practical's for each discipline

Biology	Physics	Chemistry
Microscopy	Specific heat capacity	Making salts
Osmosis	Resistance	Temperature changes
Enzymes	I-V characteristics	Rates of reaction
Food tests	Density	Chromatography
Photosynthesis	Force and extension	Water purification
Reaction time	Acceleration	Electrolysis
Field investigations	Radiation and absorption	



ASSESSMENT

All assessment is written examinations which include: multiple choice, structured, closed short answer, and open response.

EXAMS will be based on TIER OF ENTRY (HIGHER OR FOUNDATION)

Biology paper 1	Topics: 1-4	1 hour and 15 minutes	70 marks (16.7% of GCSE)
Biology paper 2	Topics: 5-7	1 hour and 15 minutes	70 marks (16.7% of GCSE)
Chemistry paper 1	Topics: 8-12	1 hour and 15 minutes	70 marks (16.7% of GCSE)
Chemistry paper 2	Topics: 13-17	1 hour and 15 minutes	70 marks (16.7% of GCSE)
Physics paper 1	Topics: 18-21	1 hour and 15 minutes	70 marks (16.7% of GCSE)
Physics paper 2	Topics: 22-24	1 hour and 15 minutes	70 marks (16.7% of GCSE)

CURRICULUM MAP YEAR 10

Our classes are set into tiers (higher and foundation) based on baseline assessment upon entry. All students are taught all of the content therefore not limiting progression between tiers. Students are taught by the subject specialist, each class/group has a bespoke curriculum which will cover all the topics in slightly different orders. We name our classes after famous scientists as class codes which is found on student timetables. The topics covered for each class are outlined below. Learning is scaffolded and repeated within different topics of the course to build on previously learnt concepts.

Tyson					
Autumn term 1	Autumn term 2	Spring term 1	Spring term 2	Summer term 1	Summer term 2
Energy	Electricity	Atomic structure and periodic table	Chemical changes	Cell Biology	Organisation
Particle model of matter	Atomic structure	Structure and bonding	Energy Changes	Infection and response	
Electricity	Periodic table	Quantitative Chemistry	Cell Biology		

CURRICULUM MAP YEAR 10

Hawking					
Autumn term 1	Autumn term 2	Spring term 1	Spring term 2	Summer term 1	Summer term 2
Cell Biology	Infection and response	Photosynthesis	Structure and bonding	Energy changes	Particle model of matter
Infection and response	Organisation	Respiration	Chemical changes	Energy	Electricity
	Photosynthesis	Atomic structure and periodic table	Energy changes		
		Structure and bonding			

Johnson (shared class)					
Autumn term 1	Autumn term 2	Spring term 1	Spring term 2	Summer term 1	Summer term 2
Energy	Cell Biology	Infection and response	Infection and response	Organisation	Respiration
Cell Biology	Particle model of matter	Atomic structure	Atomic structure and periodic table	Structure and bonding	Structure and bonding
	Electricity		Organisation	Photosynthesis	Quantitative chemistry
	Infection and response				Chemical changes

CURRICULUM MAP YEAR 11

Darwin					
Autumn term 1	Autumn term 2	Spring term 1	Spring term 2	Summer term 1	Summer term 2
Organic chemistry	Energy	Forces	Electromagnetism	Ecology	Exams
Chemical analysis	Particle model of matter	Waves	Homeostasis and response	Exam prep	
Chemistry of the atmosphere	Atomic structure	Magnetism and electromagnetism	Inheritance, variation and evolution		
Using resources	Forces				
Energy					

CURRICULUM MAP YEAR 11

Jemison					
Autumn term 1	Autumn term 2	Spring term 1	Spring term 2	Summer term 1	Summer term 2
Organic chemistry	Infection and response	Bioenergetics	Ecology	Waves	Exams
Chemical analysis	Organisation	Homeostasis and response	Forces	Magnetism and electromagnetism	
Chemistry of the atmosphere		Inheritance, variation and evolution	Waves	Exam prep	
Using resources					
Cell Biology					

CURRICULUM MAP YEAR 11

Franklin (shared class)					
Autumn term 1	Autumn term 2	Spring term 1	Spring term 2	Summer term 1	Summer term 2
Cell Biology	Infection and response	Forces	Homeostasis and response	Inheritance, variation and evolution	Exams
Organic chemistry	Using resources	Organisation	Waves	Magnetism and electromagnetism	
Chemistry of the atmosphere	Organisation	Bioenergetics	Inheritance, variation and evolution	Ecology	
Using resources	Forces	Waves	Magnetism and electromagnetism	Exam prep	



<https://globalacademy.com/news/bringing-science-media-together/>



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