

Combined Science

Course Description



This qualification is linear, meaning that students sit all their exams at the end of the 2 year course.

All students will study GCSE Combined Science – Trilogy which is a double award, equivalent to two GCSE's.

The GCSE in Combined Science should enable students to:

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- develop understanding of the nature, processes and methods of science, through different types of scientific enquiries that help them to answer scientific questions about the world around them
- develop and learn to apply observational, practical, modelling, enquiry and problem solving skills in the laboratory, in the field and in other learning environments
- develop their ability to evaluate claims based on science through critical analysis of the methodology, evidence and conclusions, both qualitatively and quantitatively.

Assessment

9-1 Combined Science Trilogy (Spec 8464)	AQA	Bio paper 1	75 mins	Biology	Written Paper	70 marks	16.7%
		Bio paper 2	75 mins	Biology	Written Paper	70 marks	16.7%
		Chem Paper 1	75 mins	Chemistry	Written Paper	70 marks	16.7%
		Chem Paper 2	75 mins	Chemistry	Written Paper	70 marks	16.7%
		Phys Paper 1	75 mins	Physics	Written Paper	70 marks	16.7%
		Phys Paper 2	75 mins	Physics	Written Paper	70 marks	16.7%

Subject: 9-1 GCSE Combined Science - Trilogy		Exam board: AQA	<table border="1"> <tr> <td>Key stage / year group: 10</td> </tr> <tr> <td>Course length: 2 year</td> </tr> <tr> <td>Number of lessons per week: 4</td> </tr> <tr> <td>HOD: Icolyn Dennis idennis@brit.croydon.sch.uk</td> </tr> </table>		Key stage / year group: 10	Course length: 2 year	Number of lessons per week: 4	HOD: Icolyn Dennis idennis@brit.croydon.sch.uk
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Term 1	Term 2	Term 3	Term 4	Term 5				
B1 Cell structure	C1 Atomic Structure	P2 Energy transfer by heating	B4 Organising animals & plants	Lectures covering: B15 Adaptations, interdependence B16 Organising an ecosystem B17 Biodiversity & ecosystems				
B2 Cell division	C2 Periodic table	P3 Energy resources	B5 Communicable diseases	C5 Chemical changes				
B3 Organisation & the digestive system	C3 Structure & bonding	P4 Electric circuits	B6 Preventing & treating diseases					
	P1 Conservation & dissipation of energy		B7 Non-communicable diseases					
			B8 Photosynthesis					

Subject: 9-1 GCSE Combined Science - Trilogy		Exam board: AQA	Key stage / year group: 11 Course length: 2 year Number of lessons per week: 4 HOD: Icolyn Dennis idennis@brit.croydon.sch.uk	
Term 1	Term 2	Term 3	Term 4	Term 5
C6 Electrolysis	P7 Radioactivity	C9 Crude oil and fuels	P11 Wave properties	B14 Genetics & evolution
C7 Energy changes	P8 Forces in balance	C10 Chemical analysis	P12 Electromagnetic waves	
C8 Rates and equilibrium	B9 Respiration	C11 The Earth's atmosphere	P13 Electromagnetism	
P5 Electricity in the home	B10 Human nervous system	C12 The Earth's resources	B12 Reproduction	
P6 Molecules & matter	B11 Hormonal coardination	P9 Motion	B13 Variation & evolution	
		P10 Force and motion		

Separate Sciences
Course descriptor

This qualification is linear, meaning that students sit all their exams at the end of the two year course.

Students selecting to study Separate Sciences as an option will achieve a triple award (3 GCSEs). Triple Science students are taught in classes alongside the combined science students, but have 2.5 hours each week exclusively with fellow triple scientists covering the Separate Sciences content.

The three GCSE Science qualifications enable students to:

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- develop understanding of the nature, processes and methods of science, through different types of scientific enquiries that help them to answer scientific questions about the world around them
- develop and learn to apply observational, practical, modelling, enquiry and problem solving skills in the laboratory, in the field and in other learning environments
- develop their ability to evaluate claims based on science through critical analysis

Assessment

9-1 Biology (Spec 8461)	AQA	Bio paper 1	1 hour 45 mins	Biology	Written Paper	100 marks	50%
		Bio paper 2	1 hour 45 mins	Biology	Written Paper	100 marks	50%
9-1 Chemistry (Spec 8462)	AQA	Chem Paper 1	1 hour 45 mins	Chemistry	Written Paper	100 marks	50%
		Chem Paper 2	1 hour 45 mins	Chemistry	Written Paper	100 marks	50%
9-1 Physics (Spec 8463)	AQA	Phys Paper 1	1 hour 45 mins	Physics	Written Paper	100 marks	50%
		Phys Paper 2	1 hour 45 mins	Physics	Written Paper	100 marks	50%

Subject: 9-1 GCSE Separate Sciences Biology / Chemistry / Physics		Exam board: AQA	<table border="1"> <tr> <td>Key stage / year group: 10</td> </tr> <tr> <td>Course length: 2 year</td> </tr> <tr> <td>Number of lessons per week: 6.5</td> </tr> <tr> <td>HOD: Icolyn Dennis idennis@brit.croydon.sch.uk</td> </tr> </table>		Key stage / year group: 10	Course length: 2 year	Number of lessons per week: 6.5	HOD: Icolyn Dennis idennis@brit.croydon.sch.uk
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Course length: 2 year								
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Term 1	Term 2	Term 3	Term 4	Term 5				
B1 Cell structure	C1 Atomic Structure	P2 Energy transfer by heating	B5 Communicable diseases	Lectures covering: B15 Adaptations, interdependence B16 Organising an ecosystem B17 Biodiversity & ecosystems				
B2 Cell division	C2 Periodic table	P3 Energy resources	B7 Non-communicable diseases	C5 Chemical changes				
B3 Organisation & the digestive system	C3 Structure & bonding	P4 Electric circuits	B8 Photosynthesis	C10 Organic reactions				
B5 Communicable diseases	P1 Conservation & dissipation of energy	B4 Organising animals & plants	B9 Respiration					
B6 Preventing & treating diseases								

Subject: 9-1 GCSE Separate Sciences – Biology / Chemistry / Physics		Exam board: AQA	Key stage / year group: 11	
			Course length: 2 year	
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Term 1	Term 2	Term 3	Term 4	Term 5
C6 Electrolysis	P7 Radioactivity	C10 Chemical analysis	P12 Electromagnetic waves	B14 Genetics & evolution
C7 Energy changes	P8 Forces in balance	C11 The Earth's atmosphere	P13 Electromagnetism	Revision
C8 Rates and equilibrium	P11 Force & pressure	C12 The Earth's resources	P14 Light	
P5 Electricity in the home	B10 Human nervous system	C13 Using our resources	P16 Space	
P6 Molecules & matter	B11 Hormonal coordination	P9 Motion	B12 Reproduction	
B12 Homeostasis in action	C9 Crude oil and fuels	P10 Force and motion	B13 Variation & evolution	
C11 Polymers		P11 Wave properties		