

Bournville Science Department – Long Term Plan Autumn 2017 to Summer 2018

		Autumn		Spring		Summer	
		Skills	Content	Skills	Content	Skills	Content
Year 11 AQA Trilogy GCSE	AO1	Literacy and numeracy	4.7 Ecology 5.6 Rate of reaction 5.7 Organic Chemistry 5.8 Chemical analysis 5.9 Chemistry of the atmosphere	AO1	5.10 Using resources 6.5 Forces 6.6 Waves 6.7 Magnetism electromagnetism	AO1	Revision of paper 1 & paper 2
	AO2			AO2		AO2	
	AO3			AO3		AO3	
						Literacy and numeracy	
Year 11 AQA Biology GCSE	AO1	Literacy and numeracy	4.5 Homeostasis and response 4.6 Inheritance, variation and response. 4.7 Ecology	AO1	4.7 Ecology Revision of paper 1 & paper 2	AO1	Revision of paper 1 & paper 2
	AO2			AO2		AO2	
	AO3			AO3		AO3	
				Literacy and numeracy		Literacy and numeracy	
Year 11 AQA Chemistry GCSE	AO1	Literacy and numeracy	5.7 Organic Chemistry 5.8 Chemical analysis 5.9 Chemistry of the atmosphere 5.10 Using resources	AO1	5.10 Using resources Revision of paper 1 & paper 2	AO1	Revision of paper 1 & paper 2
	AO2			AO2		AO2	
	AO3			AO3		AO3	
				Literacy and numeracy		Literacy and numeracy	
Year 11 AQA Physics GCSE	AO1	Literacy and numeracy	6.5 Forces 6.7 Magnetism electromagnetism	AO1	6.7 Magnetism electromagnetism 6.8 Space Revision of paper 1 & paper 2	AO1	Revision of paper 1 & paper 2
	AO2			AO2		AO2	
	AO3			AO3		AO3	
				Literacy and numeracy		Literacy and numeracy	

AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures.

AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures.

AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures.

Bournville Science Department – Long Term Plan Autumn 2017 to Summer 2018

Year 10 AQA Trilogy GCSE	AO1 AO2 AO3 Literacy and numeracy	4.4 Bioenergetics 5.3 Quantitative chemistry 5.4 Chemical changes 5.5 Energy changes	AO1 AO2 AO3 Literacy and numeracy	6.3 Particle model of matter 6.4 Atomic structure 4.5 Homeostasis and response 4.6 Inheritance, variation and response	AO1 AO2 AO3 Literacy and numeracy	4.6 Inheritance, variation and response 4.7 Ecology 5.6 Rate of reaction
Year 10 AQA Biology GCSE	AO1 AO2 AO3 Literacy and numeracy	4.4 Bioenergetics 4.5 Homeostasis and response	AO1 AO2 AO3 Literacy and numeracy	4.5 Homeostasis and response 4.6 Inheritance, variation and response	AO1 AO2 AO3 Literacy and numeracy	4.6 Inheritance, variation and response 4.7 Ecology
Year 10 AQA Chemistry	AO1 AO2 AO3 Literacy and numeracy	5.3 Quantitative chemistry 5.4 Chemical changes	AO1 AO2 AO3 Literacy and numeracy	5.5 Energy changes 5.6 Rate of reaction	AO1 AO2 AO3 Literacy and numeracy	5.7 Organic Chemistry 5.8 Chemical analysis
Year 10 AQA Physics GCSE	AO1 AO2 AO3 Literacy and numeracy	6.3 Particle model of matter 6.4 Atomic structure 6.5 Forces	AO1 AO2 AO3 Literacy and numeracy	6.5 Forces	AO1 AO2 AO3 Literacy and numeracy	6.6 Waves

AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures.

AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures.

AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures.

Bournville Science Department – Long Term Plan Autumn 2017 to Summer 2018

Year 9 AQA Trilogy GCSE	AO1 AO2 AO3 Literacy and numeracy	4.1 Cell Biology 4.2 Organisation 4.3 Infection and response	AO1 AO2 AO3 Literacy and numeracy	4.4 Bioenergetics 5.1 Atomic structure and periodic table 5.2 Bonding, structure and properties of matter	AO1 AO2 AO3 Literacy and numeracy	5.3 Quantitative chemistry 5.4 Chemical changes 5.5 Energy changes
Year 9 AQA Biology GCSE	AO1 AO2 AO3 Literacy and numeracy	4.1 Cell Biology 4.2 Organisation	AO1 AO2 AO3 Literacy and numeracy	4.2 Organisation 4.3 Infection and response	AO1 AO2 AO3 Literacy and numeracy	4.4 Bioenergetics 4.5 Homeostasis and response
Year 9 AQA Chemistry	AO1 AO2 AO3 Literacy and numeracy	5.1 Atomic structure and periodic table 5.2 Bonding, structure and properties of matter	AO1 AO2 AO3 Literacy and numeracy	5.3 Quantitative chemistry 5.4 Chemical changes	AO1 AO2 AO3 Literacy and numeracy	5.4 Chemical changes 5.5 Energy changes 5.6 Rate of reaction
Year 9 AQA Physics GCSE	AO1 AO2 AO3 Literacy and numeracy	6.1 Energy 6.2 Electricity	AO1 AO2 AO3 Literacy and numeracy	6.3 Particle model of matter 6.4 Atomic structure	AO1 AO2 AO3 Literacy and numeracy	6.5 Forces 6.6 Waves

AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures.

AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures.

AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures.

Bournville Science Department – Long Term Plan Autumn 2017 to Summer 2018

Year 8	AO1 AO2 AO3 Literacy and numeracy	Biology Unit 1 - Digestion, Evolution and Variation. Chemistry Unit 1 - Periodic Table and Reactivity	AO1 AO2 AO3 Literacy and numeracy	Physics Unit 1 – Energy Transfers and Fluids. Biology Unit 2 - Respiration and the Body.	AO1 AO2 AO3 Literacy and numeracy	Chemistry Unit 2 – Rocks, Weathering and the Environment. Physics Unit 2 – Earth, Space and Light. Revision End of Year Exam
Year 7	AO1 AO2 AO3 Literacy and numeracy	Physics Unit 1 - Forces and Sound. Biology Unit 1 - Cells and Reproduction.	AO1 AO2 AO3 Literacy and numeracy	Chemistry Unit 1 - Chemical Reactions and the Particle model. Physics Unit 2 - Energy and Electricity.	AO1 AO2 AO3 Literacy and numeracy	Biology Unit 2 - Classification and plants. Chemistry Unit 2 - Metals, Acids and Alkalis. Revision End of Year Exam

AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures.

AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures.

AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures.