

Science

Half Term 1

	Year 7	Year 8	Year 9	Year 10 - Biology Separate Science	Year 11 - Biology Separate Science	Year 10 - Chemistry Separate Science	Year 11 - Chemistry Separate Science	Year 10 - Physics Separate Science	Year 11 - Physics Separate Science	Year 10 Combined Science	Year 11 Combined Science
Topic	Science Lab Licence Cells, tissues, organs and systems.	Science Lab Licence Food and Nutrition	Science Lab Licence Microscopes and Cells	Science Lab Licence Genetics	Science Lab Licence Ecosystems and Material Cycles Animal Coordination, control and Homeostasis	Science Lab Licence Ionic bonding. Covalent bonding and Types of substance	Groups in the Periodic Table, Rates of Reaction and Heat Energy Changes in Chemical Reactions	Science Lab Licence Waves	Magnetism and the Motor Effect and Electromagnetic Induction	Science Lab Licence, Genetics, Ionic bonding, Covalent bonding, Types of substance Waves	Ecosystems and Material Cycles, Control and Homeostasis, Fuels, Earth and Atmospheric Science, Magnetism and the Motor

											Effect
Assessment	Introduction to Science Assessment Cells, tissues, organs and systems end of unit assessment.	Science introduction assessment. Food and Nutrition end of unit assessment	Microscope and cells end of unit assessment	End of Unit Test	End of Unit Test	End of Unit Test	End of Unit Test	End of Unit Test	End of Unit Test	End of Unit Tests	End of Unit Tests

Half Term 2

	Year 7	Year 8	Year 9	Year 10 - Biology Separate Science	Year 11 - Biology Separate Science	Year 10 - Chemistry Separate Science	Year 11 - Chemistry Separate Science	Year 10 - Physics Separate Science	Year 11 - Physics Separate Science	Year 10 Combined Science	Year 11 Combined Science
Topic	Cells, tissue, organs and system	Metals and their	Methods of Separation and Purification	Natural Selection and Genetic Modification	Animal Coordination, Control and	Acids and Alkalis	Hydrocarbons, Alcohols and Carboxylic Acids and Polymers.	Light and the Electromagnetic Spectrum	Particle Model, Forces	Natural Selection and Genetic Modification	Exchange and Transport in Animal

	s Mixtures and Separation	Uses Light	g Substances Motion	tion	Homeostasis Exchange and Transport in Animals		Qualitative Analysis: tests for ions, Bulk and Surface Properties of Matter		and Matter	n Acids and Alkalis Light and the Electromagnetic Spectrum Natural selection and genetic modification	s Chemistry Revision Particle Model, Forces and Matter
Assessment	Cells, tissue, organs and systems end of unit test Mixtures and Separation end of unit test	Metals and their Uses end of unit test	Methods of Separation and Purifying Substances end of unit test Motion end of unit test	End of Unit Test	Year 11 Assessments End of unit test	End of Unit Test	End of Unit Test	End of Unit Test	End of Unit Test	End of Unit Tests	End of Unit Tests

Half Term 3

	Year 7	Year 8	Year 9	Year 10 - Biology Separate Science	Year 11 - Biology Separate Science	Year 10 - Chemistry Separate Science	Year 11 - Chemistry Separate Science	Year 10 - Physics Separate Science	Year 11 - Physics Separate Science	Year 10 Combined Science	Year 11 Combined Science
Topic	Forces Sexual Reproduction	Light Breathing and Respiration	Enzymes and Nutrition Forces and Motion	Health, Disease and the Development of Medicines	GCSE Biology Revision	Calculations Involving Masses Electrolytic Processes, Obtaining and Using Metals, Reversible Reactions and Equilibria, Transition Metals, Alloys and Corrosion	Qualitative Analysis: tests for ions, Bulk and Surface properties of Matter	Radioactivity	Physics Revision	Natural Selection and Genetic Modification Calculations involving masses Radioactivity	Biology Revision Chemistry Revision Physics Revision
Assessment	Forces end of unit test	Light end of unit test Breathing and Respiration end of unit	Enzymes and Nutrition end of unit test Forces and Motion end of	End of Unit Tests	Progress check assessments throughout the revision period	End of Unit Tests	End of Unit Tests	End of Unit Test	Progress check assessments throughout the revision period	End of Unit Tests	Progress check assessments throughout the revision period

		assessment	unit assessment							
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Half Term 4

	Year 7	Year 8	Year 9	Year 10 - Biology Separate Science	Year 11 - Biology Separate Science	Year 10 - Chemistry Separate Science	Year 11 - Chemistry Separate Science	Year 10 - Physics Separate Science	Year 11 - Physics Separate Science	Year 10 Combined Science	Year 11 Combined Science
Topic	Sexual Reproduction Acids and Alkalis	The Periodic Table Energy	Transporting Substances Atomic Structure and the Periodic Table	Health, Disease and the Development of Medicines Plant Structures and their Functions	GCSE Biology Revision	Electrolytic processes, obtaining and using metals, reversible reactions and equilibria, transition metals, alloys and corrosion.	Chemistry Revision	Astronomy	Physics Revision	Health Disease and the Development of Medicine Electrolytic Processes, Obtaining and Using Metals, Reversible Reactions and	Biology Revision Chemistry Revision Physics Revision

										Equilibria	
										Energy Forces Doing Work, P8 Forces and their Effects	
Assessment	Sexual Reproduction end of unit test Acids and Alkalis end of unit assessment	The Periodic Table end of unit test Energy end of unit assessment	Transporting Substances End of unit test Atomic Structure and the Periodic Table end of unit test	End of Unit Test	Progress check assessments throughout the revision period	End of Unit Test	Progress check assessments throughout the revision period	End of Unit Test	Progress check assessments throughout the revision period	End of Unit Tests	Progress check assessments throughout the revision period

Half Term 5

	Year 7	Year 8	Year 9	Year 10 - Biology Separate	Year 11 - Biology Separate	Year 10 - Chemistry Separate Science	Year 11 - Chemistry Separate Science	Year 10 - Physics Separate	Year 11 - Physics Separate	Year 10 Combined Science	Year 11 Combined Science
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Topic	Electricity Ecosystems	Plants and their Reproduction Combustion	Cells and Control	Plant Structures and their Functions		Quantitative analysis, dynamic equilibria, calculations involving gases, chemical and fuel cells. Groups in the periodic table, Rates of reaction, heat energy changes in chemical reactions		Energy - Forces Doing Work, Forces and their Effects Electricity and Circuits		Plant Structures and their Functions Electrolytic processes, obtaining and using metals, reversible reactions and equilibria. Electricity and Circuits	
Assessment	Electricity end of unit test	Plants and their Reproduction end of	Cells and control	End of Unit Tests. Year 10		End of Unit Tests.		End of Unit Test		End of Unit Tests and Year	

		unit test	end of unit test	Assessment						10 Assessment	
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Half Term 6

	Year 7	Year 8	Year 9	Year 10 - Biology Separate Science	Year 11 - Biology Separate Science	Year 10 - Chemistry Separate Science	Year 11 - Chemistry Separate Science	Year 10 - Physics Separate Science	Year 11 - Physics Separate Science	Year 10 Combined Science	Year 11 Combined Science
Topic	Ecosystems Energy	Combustion Earth and Space	Conservation of Energy	Ecosystems and Material Cycles		Fuels, Earth and Atmospheric Sciences, Electrolytic Processes and Obtaining and Using Metals		Electricity and Circuits and Static Electricity		Ecosystems and Material Cycles Groups in the periodic table, Rates of reaction, heat energy changes in chemical reaction	

										s Electricity and Circuits	
Assessment	Ecosystems end of unit test Energy end of unit assessment	Combustion end of unit test Earth and Space end of unit assessment	Conservation of Energy end of unit test	End of Unit Test		End of Unit Test			End of Unit Test	End of Unit Test	

Exam Specification

- [Edexcel \(9-1\) Biology 1B10 F/H](#)
- [Edexcel \(9-1\) Chemistry 1CH0 F/H](#)
- [Edexcel \(9-1\) Combined Science 1SC0 F/H](#)

How can I support my child?

- Discuss your child's Homework tasks and help them with any issues that they find. Ask for a description of the learning outcomes covered within Science lessons.
- Direct your child to YouTube clips from educational providers such as fuseschool, freesciencelessons and cognito. Discuss the learning outcomes with your child and ask them to teach you the content they have been learning.

Revision Resources

GP Revision Guides are provided to all students at the start of Year 10. YouTube Videos, Freesciencelessons, FuseSchool, Cognito, BBC Bitesize, Physics and mathstutor.com