

Haileybury Turnford: Curriculum

Programmes of study 2018-19: SUBJECT: Science



	7	8	9	10	11	12	13
Autumn 1	Chemistry 1 <i>How particles are arranged in different states of matter and how they can be separated.</i>	Biology 3 <i>How plants are structured, how they grow and how they reproduce. How animals and plants interaction with their environment.</i>	Biology Chapter 1: Cell Biology <i>The structure of cells and how they divide.</i> Chemistry Chapter 1: Atomic Structure and Periodic Table <i>How atoms are structured and the organisation of the periodic table.</i>	Biology Chapter 4: Health Matters <i>Different types of diseases, how they are transmitted and the body's defences against them.</i> Chemistry Chapter 5: Energy Changes <i>How energy is converted during chemical reactions.</i>	Biology Chapter 7: Variation and Evolution <i>How organisms are thought to have changed overtime.</i> Physics Chapter 2: Electricity <i>How electrical current is transferred around circuits.</i>		
Autumn 2	Biology 1 <i>How unicellular and multicellular organisms are organised and how they digest food.</i>	Physics 3 <i>How energy is transferred within objects and systems.</i>	Chemistry Chapter 1: Atomic Structure and Periodic Table <i>How atoms are structured and the organisation of the periodic table.</i> Physics Chapter 3: Particle Model of Matter <i>How the arrangement of particles in an object affects its properties.</i>	Chemistry Chapter 6: The Rate and Extent of Chemical Change <i>How different factors affect the speed of chemical reactions.</i> Physics Chapter 2: Electricity <i>How electrical current is transferred around circuits.</i>	Biology Chapter 7: Variation and Evolution <i>How organisms are thought to have changed overtime.</i> Physics Chapter 2: Electricity <i>How electrical current is transferred around circuits.</i>		
Spring 1	Physics 1 <i>How forces affect moving objects and how light intersects with</i>	Chemistry 3 <i>How rocks and the earth's atmosphere have changed overtime.</i>	Biology Chapter 2: Photosynthesis <i>How plants produce their own food and</i>	Biology Chapter 5: Coordination and Control <i>How the nervous system and hormones control</i>	Biology Chapter 8: Ecology in Action <i>How living organisms interact</i>		

	<i>objects in our environment.</i>		<i>transport substances.</i> Chemistry Chapter 2: Structure and Bonding <i>The different ways in which chemicals are joined together.</i>	<i>our responses to the environment.</i> Chemistry Chapter 7: Hydrocarbons <i>How chemicals made from hydrogen and carbon (crude oil) are used in everyday life.</i>	<i>with their environment.</i> Physics Chapter 7: Electromagnetism <i>How magnetic forces are used in compasses and electrical devices.</i>		
Spring 2	Chemistry 2 <i>How chemicals are involved in different types of reactions.</i>	Physics 4 <i>How electricity flows within circuits and how the National Grid delivers electricity across the UK.</i>	Chemistry Chapter 2: Structure and Bonding <i>The different ways in which chemicals are joined together.</i> Physics Chapter 1: Energy <i>The different energy transfers and stores present in objects and actions.</i>	Physics Chapter 4: Atomic Structure <i>The structure of the atom and types of radiation.</i> Biology Chapter 6: Genetics <i>How inherited features are passed onto offspring.</i> Chemistry Chapter 8: Chemical Analysis <i>Methods used to test the identity of unknown substances.</i>	Revision <i>Use of revision guides, online exam question practise, past paper practise, model answers activities, revision activities/ games/ strategies.</i>		
Summer 1	Physics 2 <i>How we use fuels and resources across the planet and how sound interacts with objects in our environment.</i>	Chemistry 4 <i>How acids and metals react to make new substances and how the rate of reactions can change.</i>	Biology Chapter 3: Moving and Changing Materials <i>How cells exchange and transport materials.</i>	Chemistry Chapter 8: Chemical Analysis <i>Methods used to test the identity of unknown substances.</i> Physics Chapter 5: Forces <i>How forces affect moving objects.</i>			
Summer 2	Biology 4 <i>How plants are</i>	Biology 4 <i>How animals reproduce</i>	Revision and End of Year Exam	Physics Chapter 5: Forces <i>How forces</i>			

	<i>structured, how they grow and how they reproduce.</i>	<i>and inherited information is passed on. How diseases affect us and how our bodies defend themselves.</i>	Chemistry Chapter 4: Chemical Changes <i>How chemicals are involved in different types of reactions.</i>	<i>affect moving objects.</i> Revision and End of Year Exam Preparation for Year 11/ Re-Teaching			
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