

Denton Community College 2022/23

Departmental Curriculum Map

Subject: Science Year Group: 8



	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
Topics	 Photosynthesis and Respiration Separating mixture Motion and pressure 	 Cells and Organisation Acids and Alkali Waves 	 Chemical reactions 2 Electricity Physical and Chemical reactions 	 Earth Science Magnetism Earths atmosphere 	Reproduction Energy
What will students do during this unit?	 Aerobic and Anaerobic respiration. Photosynthesis and investigating photosynthesis Mixtures, Pure and impure substances. Distillation, Chromatography, Extracting rock salt. Forces. Speed. Distance time graphs, Speed time graphs. Pressure in liquids and gases. 	 Heart. Blood Vessels, Components of the blood. Breathing system and plant tissues. Acids and Alkali, Indicators, Making salts. Acids and Metals. Waves, detecting sound. Sound and energy transfer. Loudness and pitch 	 Oxidation, Catalyst, Displacement reactions, Thermal decomposition. Conservation of mass Static, Current, Voltage. Series and Parallel circuits. Measuring current and Voltage. Physical and chemical changes. Dissolving. Investigating the effects of temperature and solubility. 	 Composition of the Earth's Structure. Formation and properties of Sedimentary, Metamorphic and Igneous rocks. Rock Cycle. Magnets and Magnetism. Magnetic fields, Electromagnets. Uses of electromagnets and Investigating the strength of electromagnets Earth's atmosphere, Evolution of the Earth's atmosphere. 	 Hormones. Menstrual cycle. Contraception Energy types, Store and transfers. Energy efficiency. Energy in food. Fossil Fuels and Renewables

				Greenhouse effect,	
				Global warming	
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When will	End of unit test:	End of unit test:	End of unit test:	End of unit test;	End of Year test:
students be	Autumn term 1	Autumn term 2	Spring term 1	Spring term 2	
assessed?					
How will	Each topic will be assessed	Each topic will be assessed			
students be	at an appropriate time	at an appropriate time			
assessed?	using a key piece An end-of-unit exam will be	using a key piece An end-of-unit exam will be	using a key piece An end-of-unit exam will be	using a key piece An end-of-unit exam will be	using a key piece An end-of-year exam will
	completed after all 3 topics	be completed to assess the			
	have been taught	have been taught	have been taught	have been taught	learning from September
Key Vocabulary	See medium term plans &	See medium term plans &			
,	student exercise books	student exercise books	student exercise books	student exercise books	student exercise books
Homework	One weekly task linked to	One weekly task linked to			
opportunities to	topics covered in class	topics covered in class			
broaden or					
deepen student					
knowledge					

Links to the National Curriculum Scientific attitudes Experimental skills and investigations Analysis and evaluation Measurement SUBJECT CONTENT Gas exchange systems Photosynthesis Cellular Respiration Pure and Impure substances Describing motion Forces Pressure in Fluids Forces and Motion WORKING SCIENTIFICALLY Scientific attitudes Accientific attitudes Scientific attitudes Accientific attitudes Scientific attitudes Experimental skills and investigations Experimental skills and investigations Measurement SUBJECT CONTENT Gas exchange systems Chemical reactions Observed waves Sound waves	 WORKING SCIENTIFICALLY Scientific attitudes Experimental skills and investigations Analysis and evaluation Measurement SUBJECT CONTENT Chemical reactions Current electricity Static electricity 	 WORKING SCIENTIFICALLY Scientific attitudes Experimental skills and investigations Analysis and evaluation Measurement SUBJECT CONTENT Earth and Atmosphere Magnetism 	Scientific attitudes Experimental skills and investigations Analysis and evaluation Measurement SUBJECT CONTENT Reproduction: Energy changes and transfers Energy changes and transfers
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