

Denton Community College

Departmental Curriculum Map

Subject: Science Year Group: 8



	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
Topics	 Photosynthesis and Respiration Chemical Reactions 2 Motion & Pressure 	 Organisation Separating Mixtures Electricity 	 Health 2 Earth and the Atmosphere 1 Magnetism 	 Ecosystems and Interdependence Science Week Earth Science Waves 2 	 Reproduction Energy
What will students do during this unit?	 Aerobic and anaerobic respiration. Photosynthesis, testing for starch, Photosynthesis and light intensity investigation Forces, speed, speed & velocity time graphs, Pressure in liquids and gases, moments Oxidation, catalysts, displacement reactions, thermal decomposition, 	 Circulatory system Plant tissues, Movement of substances in a plant Circuits, Static electricity, Voltage Mixtures, Pure and impure substances, Chromatography, Extracting rock salt, Distillation 	 Health, drugs, diet and disease. Pathogens and infection Magnets, magnetism, Magnetic fields Electromagnets Atmosphere, changes to the atmosphere, Greenhouse effect, Global warming 	 Food chains & webs, predator-prey relationships, accumulation of toxins, Insect pollination Light, reflection, refraction, detecting sound, sound and energy transfer, Loudness and pitch Structure of the earth, igneous, metamorphic, sedimentary, rock cycle 	 Hormones, menstrual cycle, contraception. Energy in food, power ratings, energy transfer, fuels, energy resources, fuel use and cost

	conservation of mass				
When will students be assessed?	End of unit test: Autumn term 1	End of unit test: Autumn term 2	End of unit test: Spring term 1	End of unit test; Spring term 2	End of unit test: Summer term 1
How will students be assessed?	Each topic will be assessed at an appropriate time using a key piece An end-of-unit exam will be completed after all 3 topics have been taught	Each topic will be assessed at an appropriate time using a key piece An end-of-unit exam will be completed after all 3 topics have been taught	Each topic will be assessed at an appropriate time using a key piece An end-of-unit exam will be completed after all 3 topics have been taught	Each topic will be assessed at an appropriate time using a key piece An end-of-unit exam will be completed after all 3 topics have been taught	Each topic will be assessed at an appropriate time using a key piece An end-of-year exam will be completed to assess the year's learning
Key Vocabulary	See medium term plans & student exercise books	See medium term plans & student exercise books	See medium term plans & student exercise books	See medium term plans & student exercise books	See medium term plans & student exercise books
Homework opportunities to broaden or deepen student knowledge	One weekly task linked to topics covered in class	One weekly task linked to topics covered in class	One weekly task linked to topics covered in class	One weekly task linked to topics covered in class	One weekly task linked to topics covered in class
Links to the National Curriculum	 WORKING SCIENTIFICALLY Scientific attitudes Experimental skills and investigations Analysis and evaluation Measurement SUBJECT CONTENT Cellular respiration Motion & forces Pressure in fluids Chemical reactions 	 WORKING SCIENTIFICALLY Scientific attitudes Experimental skills and investigations Analysis and evaluation Measurement SUBJECT CONTENT Cells and organisation Electricity and electromagnetism Pure & impure substances 	 WORKING SCIENTIFICALLY Scientific attitudes Experimental skills and investigations Analysis and evaluation Measurement SUBJECT CONTENT Gas exchange systems Material cycles and energy Health Magnetism Earth & atmosphere 	 WORKING SCIENTIFICALLY Scientific attitudes Experimental skills and investigations Analysis and evaluation Measurement SUBJECT CONTENT Relationships in an ecosystem Sound waves Light waves Energy in waves 	 WORKING SCIENTIFICALLY Scientific attitudes Experimental skills and investigations Analysis and evaluation Measurement SUBJECT CONTENT Reproduction Energy