



Denton Community College 2022/23

Departmental Curriculum Map

Subject: Science

Year Group: 7



	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
Topics	<ol style="list-style-type: none"> Transition Unit 	<ol style="list-style-type: none"> Living Organisms Matter Forces 	<ol style="list-style-type: none"> Variation Atoms, elements and compounds Health and Nutrition 	<ol style="list-style-type: none"> Organisation Chemical reaction 1 Space Physics 	<ol style="list-style-type: none"> Relationships in an ecosystem Waves (Light)
What will students do during this unit?	<ol style="list-style-type: none"> Living things in the environment Light Electricity Evolution and inheritance Animals including humans Properties and changes of materials 	<ol style="list-style-type: none"> Living, dead and non-living. Animal & Plant cells. Observing cells. Animal and plant cell differences. Properties of solids liquids and gases. Particle Theory. Behaviour of solids, liquids and gases. Pure substances and mixtures. Introduction to forces. Interaction pairs. Investigating friction. Investigating air resistance. 	<ol style="list-style-type: none"> DNA. How to extract DNA. Inheritance and variation. Classifying variation. Continuous and discontinuous variation. Introduction to atoms. Atoms, elements, compounds and mixtures. Introduction and development of the periodic table. Smoking, asthma and the respiratory system. Effects of drugs. Diet and exercise. Pathogens. Barriers to infection. 	<ol style="list-style-type: none"> Levels of organisation. Digestive system. Food groups and digestion. The skeleton. Muscles. Introduction to chemical reactions. Gas tests. Flame tests. Combustion. Investigation into burning. Fire triangle. Exothermic and endothermic reactions. The Solar system. Night, day and the seasons. Satellites. Space exploration. 	<ol style="list-style-type: none"> Ecosystems. Adaptations. Competition. Food chains and webs. Predator prey interactions. Insect pollination. Light and reflection. Refraction. The eye and pinhole cameras. Lenses. Colour and Prisms.

			Transmission. Hygiene and Mental health.		
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 Year test:
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 learning from September
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	<p>WORKING SCIENTIFICALLY</p> <ul style="list-style-type: none"> Scientific attitudes Experimental skills and investigations Analysis and evaluation Measurement <p>SUBJECT CONTENT KS2</p> <ul style="list-style-type: none"> Living things and their habitats Light Electricity Evolution and inheritance 	<p>WORKING SCIENTIFICALLY</p> <ul style="list-style-type: none"> Scientific attitudes Experimental skills and investigations Analysis and evaluation Measurement <p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> Cells and Organisation The particulate nature of matter Pure and impure substances 	<p>WORKING SCIENTIFICALLY</p> <ul style="list-style-type: none"> Scientific attitudes Experimental skills and investigations Analysis and evaluation Measurement <p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> Inheritance, chromosomes, DNA and genes Atoms, elements and compounds The periodic table Health 	<p>WORKING SCIENTIFICALLY</p> <ul style="list-style-type: none"> Scientific attitudes Experimental skills and investigations Analysis and evaluation Measurement <p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> Cells and organisation Nutrition and digestion The skeletal and muscular systems Chemical reactions Energetics Space physics 	<p>WORKING SCIENTIFICALLY</p> <ul style="list-style-type: none"> Scientific attitudes Experimental skills and investigations Analysis and evaluation Measurement <p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> Relationships in an ecosystem Light waves

	<ul style="list-style-type: none">● Animals including humans● Properties and changes of materials		<ul style="list-style-type: none">● Nutrition and digestion● Gas exchange systems		
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