



Denton Community College 2019/20

Departmental Curriculum Map

Subject: Science

Year Group: 10



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics	<ol style="list-style-type: none"> 1. Cell biology 2. Structure & bonding 3. Energy 	<ol style="list-style-type: none"> 1. Organisation 2. Quantitative chemistry 3. Electricity 	<ol style="list-style-type: none"> 1. Infection & response 2. Chemical & energy changes 3. Particle model 	<ol style="list-style-type: none"> 1. Bioenergetics 2. Rates of reaction 3. Atomic structure 	<ol style="list-style-type: none"> 1. Complete Spring 2 unit 2. Exam revision 3. Exam review 	<ol style="list-style-type: none"> 1. Homeostasis
What will students do during this unit?	<ol style="list-style-type: none"> 1. Recap Y9 differentiation, microscopes, molecule movement 2. Atomic structure, separating mixtures, the periodic table, ions & bonding and model development 3. Recap Y9 energy resources and specific heat capacity 	<ol style="list-style-type: none"> 1. Digestive system, food tests, the circulatory system, plant tissues and non-communicable diseases 2. Mass conservation, balancing equations, relative formula mass and moles 3. Recap Y9 charge, mains electricity, resistors, power & energy 	<ol style="list-style-type: none"> 1. Recap Y9 Immunity Vaccines Drug Development 2. Metal Reactions Reactivity pH Endo/Exo thermic reactions 3. Particle Model Density Specific Latent Heat 	<ol style="list-style-type: none"> 1. Recap Y9 glucose uses 2. Rate of reaction, factors, collision theory, catalysts and activation energy 3. Recap Y9 atomic structure and nuclear equations 	Students will be revising all topics covered this year through structured revision in class	<ol style="list-style-type: none"> 1. Nervous System, endocrine system and glucose control
When will students be assessed?	Week beginning 11/11/19	Week beginning 12/01/19	Week beginning 09/03/20	Week beginning 04/05/20	End of Year exam (date yet to be determined)	-
How will students be assessed?	End of unit test Key piece assessment in 2 out of 3 topics	End of unit test Key piece assessment in 2 out of 3 topics	End of unit test Key piece assessment in 2 out of 3 topics	End of unit test Key piece assessment in 2 out of 3 topics	End of year exam Key piece assessment in 2 out of 3 topics	Key Piece

Key Vocabulary	See student exercise books	See student exercise books	See student exercise books	See student exercise books	See student exercise books	See student exercise books
Homework opportunities to broaden or deepen student knowledge	One homework per week linked to topics covered in class	One homework per week linked to topics covered in class	One homework per week linked to topics covered in class	One homework per week linked to topics covered in class	One homework per week linked to topics covered in class	One homework per week linked to topics covered in class
Links to the National Curriculum	<p>WORKING SCIENTIFICALLY</p> <ul style="list-style-type: none"> The development of scientific thinking Experimental skills and strategies Analysis and evaluation Vocabulary, units, symbols and nomenclature <p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> Cell biology Atomic structure and the periodic table Structure, bonding and the properties of matter Energy 	<p>WORKING SCIENTIFICALLY</p> <ul style="list-style-type: none"> The development of scientific thinking Experimental skills and strategies Analysis and evaluation Vocabulary, units, symbols and nomenclature <p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> Transport systems Chemical changes Electricity 	<p>WORKING SCIENTIFICALLY</p> <ul style="list-style-type: none"> The development of scientific thinking Experimental skills and strategies Analysis and evaluation <p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> Health, disease & development of medicines Chemical changes Energy changes in chemical changes The structure of matter 	<p>WORKING SCIENTIFICALLY</p> <ul style="list-style-type: none"> The development of scientific thinking Experimental skills and strategies Analysis and evaluation <p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> Photosynthesis Cell biology Rate & extent of chemical change Atomic structure 	<p>WORKING SCIENTIFICALLY</p> <ul style="list-style-type: none"> The development of scientific thinking Experimental skills and strategies Analysis and evaluation <p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> Photosynthesis Cell biology Rate & extent of chemical change Atomic structure 	<p>WORKING SCIENTIFICALLY</p> <ul style="list-style-type: none"> The development of scientific thinking Experimental skills and strategies Analysis and evaluation <p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> Coordination and control