



Denton Community College

Departmental Curriculum Map

Subject: Science

Year Group: 11



	Unit 1	Unit 2	Unit 3 COMBINED	Unit 3 TRIPLE	Unit 4
Topics	<ol style="list-style-type: none"> Homeostasis and Response Inheritance, Variation and Evolution Ecology 	<ol style="list-style-type: none"> Atomic Structure (Physics) Forces Waves Magnetism 	<p>RETEACH</p> <p>Recap Year 10</p>	<ol style="list-style-type: none"> Separate Biology Separate Chemistry Separate Physics 	<p>STRUCTURED REVISION</p>
What will students do during this unit?	<ol style="list-style-type: none"> Recap Y9 Reproduction Contraception IVF <i>The eye & brain</i> <i>Controlling temperature, water & nitrogen</i> <i>Plant hormones & germination</i> Recap Y9 Cell division Reproduction Genetic engineering Variation Evolution Fossils & Extinction <i>Protein synthesis</i> <i>Speciation</i> <i>Cloning</i> 	<ol style="list-style-type: none"> Recap Y9 Atomic model Nuclear equations Half life <i>Uses of radiation</i> <i>background radiation</i> <i>Fission & fusion</i> Recap Y9 Motion graphs Stopping Newton's laws Elasticity Momentum Resolving vectors Types of wave Wave speed & PAG EM spectrum & uses Radiation PAG Using light 	<ol style="list-style-type: none"> Recap Physics Paper 1 Recap Chemistry Paper 1 Recap Chemistry Paper 2 Recap Biology Paper 1 	<ol style="list-style-type: none"> <i>Cultivating microbes</i> <i>Monoclonal antibodies</i> <i>Atom economy & percentage yield</i> <i>Titrations</i> <i>Alkenes, alcohols, carboxylic acids & polymers</i> <i>Chemical tests and instrumental methods</i> <i>Corrosion</i> <i>Alloys</i> <i>Ceramics & composites</i> <i>Haber process</i> <i>Insulation</i> 	<ol style="list-style-type: none"> Required Practical revision Biology Unit 1 revision Chemistry Unit 1 revision Physics Unit 1 revision Biology Unit 2 revision Chemistry Unit 2 revision Physics Unit 2 revision

	3. Recap Y9 Feeding relationships Sampling Nutrient cycles Biodiversity <i>Food security</i> <i>Trophic levels</i> <i>Decomposition</i>	4. Magnet properties & fields Electromagnets Fleming LH rule & motors <i>Speakers & microphones</i> <i>Generators</i> <i>Transformers</i>		<i>Pressure</i> <i>Moments</i> <i>Using light PAG</i> <i>Using sound</i> <i>Visible light & lenses</i> <i>Black body radiation</i> <i>Space</i>	
When will students be assessed?	Bi-weekly test	Bi-weekly test	Bi-weekly test	Bi-weekly test	Bi-weekly test
How will students be assessed?	Each topic will be assessed at an appropriate time using a key piece	Each topic will be assessed at an appropriate time using a key piece	Each topic will be assessed at an appropriate time using a key piece	Each topic will be assessed at an appropriate time using a key piece	Each topic will be assessed at an appropriate time using a key piece
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	Revision Period 6 revision sessions each fortnight	Revision Period 6 revision sessions each fortnight	Revision Period 6 revision sessions each fortnight	Revision Period 6 revision sessions each fortnight	Revision Period 6 revision sessions each fortnight
Links to the National Curriculum	WORKING SCIENTIFICALLY <ul style="list-style-type: none"> The development of scientific thinking Experimental skills and strategies Analysis and evaluation 	WORKING SCIENTIFICALLY <ul style="list-style-type: none"> The development of scientific thinking Experimental skills and strategies Analysis and evaluation 	WORKING SCIENTIFICALLY <ul style="list-style-type: none"> The development of scientific thinking Experimental skills and strategies Analysis and evaluation Vocabulary, units, symbols and nomenclature 	WORKING SCIENTIFICALLY <ul style="list-style-type: none"> The development of scientific thinking Experimental skills and strategies Analysis and evaluation 	WORKING SCIENTIFICALLY <ul style="list-style-type: none"> The development of scientific thinking Experimental skills and strategies Analysis and evaluation

	<ul style="list-style-type: none"> ● Vocabulary, units, symbols and nomenclature <p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> ● Coordination & control ● Evolution, inheritance & variation ● Ecosystems 	<ul style="list-style-type: none"> ● Vocabulary, units, symbols and nomenclature <p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> ● Atomic structure ● Forces ● Forces & motion ● Wave motion ● Magnetism & electromagnetism 	<p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> ● All Biology content ● All Chemistry content ● All Physics content 	<ul style="list-style-type: none"> ● Vocabulary, units, symbols and nomenclature <p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> ● Coordination & control ● Evolution, inheritance & variation ● Ecosystems ● Chemical changes ● Chemical analysis ● Energy ● Atomic structure ● Forces ● Forces & motion ● Wave motion ● Magnetism & electromagnetism ● Space 	<ul style="list-style-type: none"> ● Vocabulary, units, symbols and nomenclature <p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> ● All Biology content ● All Chemistry content ● All Physics content
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Separate Science content only