



Denton Community College Departmental Curriculum Map

Subject: Science

Year Group: 10



	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Topics	<ol style="list-style-type: none"> Cell Biology Organisation Infection and Response Bioenergetics Recap 	<ol style="list-style-type: none"> Bonding, Structure and the periodic table Chemical and Energy Changes 	<ol style="list-style-type: none"> Energy Electricity Particle Model of Matter 	<ol style="list-style-type: none"> Inheritance, Variation and Evolution Ecology 	<ol style="list-style-type: none"> Organic Chemistry Using Resources Chemistry of the Atmosphere recap Chemical Analysis Recap 	<ol style="list-style-type: none"> Forces
What will students do during this unit?	<ol style="list-style-type: none"> Recap Y9 Differentiation Cell division Molecule Movement <i>Cultivating microbes</i> Recap Y9 Enzymes Non-communicable diseases Cancer Types of microbe Immunity Vaccines Antibiotics & painkillers Drug development 	<ol style="list-style-type: none"> Recap Y9 <i>Transition metals</i> Bonding Atomic structure & periodic table development Ionic compounds Properties of matter Polymers Giant covalent Small molecules Carbon compounds Metallic bonding & alloys <i>Nanoparticles</i> Recap Y9 Extracting metals 	<ol style="list-style-type: none"> Recap Y9 Kinetic energy Gravitational & elastic potential Specific heat capacity (*) <i>Insulation (*)</i> Recap Y9 Resistance Resistors Power & energy <i>Static</i> <i>Electric fields</i> Particle model Density (*) Specific latent heat Internal energy & gas pressure 	<ol style="list-style-type: none"> Recap Y9 Mitosis & meiosis <i>Protein synthesis</i> Understanding genetics Inheritance probability Genetic engineering Evolution & antibiotic resistance <i>Evolution theory & speciation</i> Fossils & extinction Recap Y9 Feeding relationships 	<ol style="list-style-type: none"> Alkanes Fractional distillation Hydrocarbon properties Cracking Potable water (*) Waste treatment Lifecycle assessments Metal extraction Evolution of the atmosphere Pollution Recap Y9 <i>Chemical tests (*)</i> <i>Instrumental methods</i> 	<ol style="list-style-type: none"> Recap Y9 Stopping D-T graphs V-T graphs Elasticity (*) Elastic potential <i>Pressure</i> Newton's laws Acceleration (*) Uniform acceleration Momentum (HT) Resolving vectors (HT) <i>Moments</i>

	<ul style="list-style-type: none"> ● Experimental skills and strategies ● Analysis and evaluation ● Vocabulary, units, symbols and nomenclature <p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> ● Cell biology ● Transport systems ● Health, disease and the development of medicines ● Photosynthesis 	<ul style="list-style-type: none"> ● Experimental skills and strategies ● Analysis and evaluation ● Vocabulary, units, symbols and nomenclature <p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> ● Atomic structure & the periodic table ● Structure, bonding & the properties of matter ● Chemical changes ● Energy changes in chemistry 	<ul style="list-style-type: none"> ● Experimental skills and strategies ● Analysis and evaluation ● Vocabulary, units, symbols and nomenclature <p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> ● Energy ● Electricity ● The structure of matter 	<ul style="list-style-type: none"> ● Experimental skills and strategies ● Analysis and evaluation ● Vocabulary, units, symbols and nomenclature <p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> ● Evolution, inheritance & variation ● Ecosystems 	<ul style="list-style-type: none"> ● Experimental skills and strategies ● Analysis and evaluation ● Vocabulary, units, symbols and nomenclature <p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> ● Chemical & allied industries ● Earth & atmospheric science ● Chemical analysis 	<ul style="list-style-type: none"> ● Experimental skills and strategies ● Analysis and evaluation ● Vocabulary, units, symbols and nomenclature <p>SUBJECT CONTENT</p> <ul style="list-style-type: none"> ● Forces ● Forces and motion
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Separate Science content only

(*) Required Practical