

Denton Community College 2022/23

Departmental Curriculum Map





	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
Topics What will	Homeostasis Quantitative Chemistry The persons system.	 Rates of Reaction Chemical Analysis Chemistry of the Atmosphere Using Resources 	 Forces Waves Space Recap Y9 	FOCUSSED REVISION 1. Biology Paper 1	FOCUSSED REVISION 1. Biology Paper 2
students do during this unit?	1. The nervous system Reaction times Endocrine system Glucose control Negative feedback Reproduction Contraception IVF The Brain The Eye Controlling body temperature Plant hormones & responses 2. Mass conservation Relative formula mass Balancing equations Uncertainty Concentration	 Y9 Recap Rates of reaction investigation Activation energy & equilibrium Factors affecting equilibrium Y9 Recap Chemical Tests Instrumental methods Y9 Recap Chemical Tests Instrumental methods Y9 Recap Earth's resources Potable Water Lifecycle assessments Reducing waste Extracting metal Corrosion Alloys Ceramics, polymers & 	Motion Graphs Acceleration Stopping Newton's Laws Elasticity Momentum Resolving vectors Pressure Moments 2. Types of waves Wave speed Wave properties EM spectrum Visible light & lenses Using sound Black body radiation 3. Our solar system Lifecycle of a star	Cell Biology Organisation Infection & Response Bioenergetics Chemistry Paper 1 Atomic Structure Bonding Quantitative Chemistry Chemical Changes Energy Changes Physics paper 1 Energy Electricity Particle Model of Matter Atomic Structure	Homeostasis inheritance Ecology Chemistry Paper 2 Rates of Reaction Organic Chemistry Chemical Analysis Chemistry of the Atmosphere Using Resources Physics paper 2 Forces Waves Magnetism Space



	Moles	composites	Satellites		
	Amount of substance	Haber Process &	Red shift		
	Limiting factors	fertilisers			
	Gas volumes				
	Percentage yield				
	Atom economy				
When will students be assessed?	Once every 2 weeks	Once every 2 weeks	Once every 2 weeks	Once every 2 weeks	Once every 2 weeks
How will students be assessed?	Bi-weekly assessment using past exam questions, that will be reviewed and improved	Bi-weekly assessment using past exam questions, that will be reviewed and improved MOCK EXAMS IN NOVEMBER	Bi-weekly assessment using past exam questions, that will be reviewed and improved MOCK EXAMS IN FEBRUARY	Bi-weekly assessment using past exam questions, that will be reviewed and improved	Bi-weekly assessment using past exam questions, that will be reviewed and improved
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	One homework per week	One homework per week	One homework per week	One homework per week	One homework per week
opportunities	linked to topics covered in	linked to topics covered in	linked to topics covered in	linked to topics covered in	linked to topics covered in
to broaden or deepen student knowledge	class	class	class	class	class
Links to the National Curriculum	WORKING SCIENTIFICALLY The development of scientific thinking Experimental skills and strategies Analysis and evaluation Vocabulary, units, symbols and nomenclature SUBJECT CONTENT	 WORKING SCIENTIFICALLY The development of scientific thinking Experimental skills and strategies Analysis and evaluation Vocabulary, units, symbols and nomenclature SUBJECT CONTENT 	 WORKING SCIENTIFICALLY The development of scientific thinking Experimental skills and strategies Analysis and evaluation Vocabulary, units, symbols and nomenclature SUBJECT CONTENT 	 WORKING SCIENTIFICALLY The development of scientific thinking Experimental skills and strategies Analysis and evaluation Vocabulary, units, symbols and nomenclature SUBJECT CONTENT 	 WORKING SCIENTIFICALLY The development of scientific thinking Experimental skills and strategies Analysis and evaluation Vocabulary, units, symbols and nomenclature SUBJECT CONTENT
	Coordination & control	SOBJECT CONTENT	• Forces	Cell biology	Coordination & control

	 Chemical changes Chemical analysis 	 Rate & extent of chemical change Chemical analysis Earth & atmospheric science 	Forces & motionWave motionSpace Physics	 Transport systems Health disease & development of medicines Photosynthesis Atomic structure & the Periodic Table Structure, bonding & properties of matter Chemical Changes Energy changes in Chemistry Chemical analysis Energy Electricity Structure of matter Atomic structure 	 Ecosystems Evolution, inheritance & variation Rate & extent of chemical change Chemical analysis Chemical & allied industries Earth & atmospheric science Forces Force & motion Wave motion Magnetism & electromagnetism Space physics
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