

Key Stage 4 Curriculum Map 2020 – 2021

Year 11 GCSE Combined Science

Term 1

Subject:	Year:	
Focus/Topic	UAE Links	Home Learning / Reading
Principles of homeostasis	Research and outline how a camel is	Guided reading
Controlling body temperature	adapted to regulate it's body	
Metal ion required practical	temperature.	
Forces between objects		
Resultant force		
Forces and elasticity		
Controlling blood glucose	Analyse data on diabetes within	Guided reading
Treating diabetes	the UAE and outline the trends	
• Speed	found.	
Velocity and acceleration		
More about velocity time graphs		
Homeostasis end of topic test	Explore how the human body	Guided reading
Titration required practical	would regulate itself differently in	
Using graphs	the desert compared to the	
Forces and acceleration	Antarctic	
Forces and braking		
Photosynthesis required practical	Outline why the dead sea enables	Guided reading
 Resultant forces and forces and motion end of topic test 	you to float	
Energy and work		
Effects of exercise on the body required practical	Design an investigation into how	Guided reading
Kinetic energy	the effect of exercise on the body	
Useful energy	differs in the UAE when	
Energy and efficiency	compared to the UK.	

 Atomic structure revision Energy demands Energy from wind and water Power from the sun and the earth 	Summarise how the UAE is utilizing renewable energy resources	Guided reading
 Structure and bonding revision Cells revision Energy and the environment Forces and energy and energy resources end of topic test 	Outline how the UAE is combatting global warming	Guided reading
Half Ter	m	
 The periodic table revision Transport in cells revision The nature of waves Measuring waves Reflection and refraction 	Evaluate whether the UAE should utilise reverse osmosis	Guided reading
 Metals revision Cell division revision Diffraction The electromagnetic spectrum Light, infrared, microwaves and radio waves 	Evaluate whether the UAE should invest in research into cell division.	Guided reading
 Electrolysis revision Breathing revision Reflection of light Refraction of light Communications 	Create a summary about respiratory disorders within the UAE	Guided reading
 Chemical analysis revision Circulation revision Ultraviolet rays, x-rays and gamma rays X-rays in medicine Sound waves 	Create a summary about coronary heart disease within the UAE	Guided reading
 Acids, bases and salts revision Digestion revision More about sound General properties of waves, electromagnetic spectrum and sound end of topic test 	Justify why is fat stored in a camels hump.	Guided reading
 Quantitative chemistry revision Nervous system revision 	Explore the UAE's restrictions with chemical movement	Guided reading

 States of matter Specific heat capacity 			
 Change of state Rates of reaction revision Animal behavior revision Specific latent heat Conduction Convection 	Compare the behavior of desert animals with the behavior of rainforest animals.	Guided reading	
Winter Break			