

Key Stage 4 Curriculum Map 2019 - 2020

Term 2

Subject: Physics	Year: 10	
Focus/Topic	UAE Links	Home Learning / Reading
<ul style="list-style-type: none"> • Centre of mass • Moments at work • Moments in balance 	In the UAE why does not cranes fall over?	Guided reading
<ul style="list-style-type: none"> • Stability • Energy and work • Power 	Calculate power of an Emirates plane.	
<ul style="list-style-type: none"> • Gravitational potential energy • Conservation of energy • Kinetic energy 	What is the mass of someone in UAE compared to mass of someone on the moon?	
<ul style="list-style-type: none"> • Useful energy • Energy and efficiency • Energy demands 	Why is it important to know hoe efficient energy is in industries in the UAE?	
<ul style="list-style-type: none"> • Energy from wind and water • Power from the sun and the earth 	What type of renewable energy is found in the UAE?	
<ul style="list-style-type: none"> • Energy and the environment 	What type of renewable energy is found in Burj Khalifa?	
<ul style="list-style-type: none"> • Assessment week 		
Mid Term Break		
<ul style="list-style-type: none"> • The nature of waves • Measuring waves • Reflection and refraction 	Where might you see reflection and refraction examples in the UAE?	Guided reading
<ul style="list-style-type: none"> • Diffraction • The electromagnetic spectrum • Light, infrared, microwaves and radiowaves 	Where might you see diffraction examples in the UAE?	

<ul style="list-style-type: none"> • Communications • Ultraviolet rays, x rays and gamma rays • X rays in medicine 	Explain the importance of X-rays in hospitals in the UAE.	Guided reading
<ul style="list-style-type: none"> • sound 	Explain the virgin radio studio is soundproof.	
<ul style="list-style-type: none"> • ultrasound 	Explain where ultrasounds are used in the UAE	
<ul style="list-style-type: none"> • Revision 	Assessment Weeks	
Spring Break		