

Key Stage 5 Curriculum Map 2021-22

Year 12 AS level Physics

Term 2

Subject: Physics	Year: 12		
Focus/Topic	UAE Links	HPL Links	Home Learning / Reading
<ul style="list-style-type: none"> (DAR, TAM) Oscillations, energy, vibrations (SMA) Springs, Hooke's law and deformation of solids 	Bridge and building construction within the UAE – Burj Khalifa	<p>VAA: Empathetic Collaborative: <i>The ability to seek out opportunities to receive responses to your work; present your own views and ideas clearly and concisely; listen to the views of others; be willing and able to work in teams; take a variety of roles and be able to evaluate your own ideas and contributions.</i></p> <p>ACP: Analysing Critical thinking: <i>The ability to deduct, hypothesise, reason, seek supporting evidence</i></p>	Booklet questions. Physics and maths tutor past papers and guided reading for every lesson. Always prepare the next lesson.
<ul style="list-style-type: none"> (DAR, TAM) Measuring waves, wave properties, stationary and progressive waves (SMA) Springs, Hooke's law and deformation of solids 	Bridge and building construction within the UAE – Burj Khalifa		Booklet questions. Physics and maths tutor past papers and guided reading for every lesson. Always prepare the next lesson.
<ul style="list-style-type: none"> (DAR, TAM) Oscilloscope and ultrasound, diffraction and interference (SMA) inside the atom, stable and unstable nuclei and photons 	Ultrasound use within diving and fishing – Pearl diving within the UAE		Booklet questions. Physics and maths tutor past papers and guided reading for every lesson. Always prepare the next lesson.
<ul style="list-style-type: none"> (DAR, TAM) Mock preparation (SMA) Mock preparation 	NA		Booklet questions. Physics and maths tutor past papers and guided reading for every lesson. Always prepare the next lesson.
<ul style="list-style-type: none"> (DAR, TAM) Mock review (SMA) Mock review 	NA		Booklet questions. Physics and maths tutor past papers and guided reading for every lesson. Always prepare the next lesson.
Mid Term Break			

<ul style="list-style-type: none"> (DAR, TAM) Diffraction and interference (SMA) Particles and anti-particles 	<p>Use of particles with hospital treatment</p> <p>Nuclear Power station in Abu Dhabi</p>	<p>VAA: Agile Open minded: <i>The ability to take an objective view of different ideas and beliefs; become more receptive to other ideas and beliefs based on the arguments of others; change ideas should there be compelling evidence to do so.</i></p> <p>ACP: Linking Connection finding: <i>The ability to use connections from past experiences to seek possible generalisations</i></p>	<p>Booklet questions. Physics and maths tutor past papers and guided reading for every lesson. Always prepare the next lesson.</p>
<ul style="list-style-type: none"> (DAR, TAM) Refraction and total internal reflection (SMA) discovery of the nucleus, alpha beta and gamma 	<p>Mirages within the desert</p> <p>Nuclear Power station in Abu Dhabi</p>		<p>Booklet questions. Physics and maths tutor past papers and guided reading for every lesson. Always prepare the next lesson.</p>
<ul style="list-style-type: none"> (DAR, TAM) Photoelectricity (SMA) the dangers of radioactivity 	<p>Nuclear Power station in Abu Dhabi</p>		<p>Booklet questions. Physics and maths tutor past papers and guided reading for every lesson. Always prepare the next lesson.</p>
<ul style="list-style-type: none"> (DAR, TAM) Collisions with atoms, energy levels (SMA) Radioactive isotopes in use 	<p>Nuclear Power station in Abu Dhabi</p>		<p>Booklet questions. Physics and maths tutor past papers and guided reading for every lesson. Always prepare the next lesson.</p>
<ul style="list-style-type: none"> (DAR, TAM) X-rays and wave particle duality (SMA) Nuclear energy levels 	<p>Nuclear Power station in Abu Dhabi</p>		<p>Booklet questions. Physics and maths tutor past papers and guided reading for every lesson. Always prepare the next lesson.</p>
<ul style="list-style-type: none"> (DAR, TAM) Review (SMA) Review 			<p>Booklet questions. Physics and maths tutor past papers and guided reading for every lesson. Always prepare the next lesson.</p>
<ul style="list-style-type: none"> (DAR, TAM) Assessment (SMA) Assessment 			<p>Booklet questions. Physics and maths tutor past papers and guided reading for every lesson. Always prepare the next lesson.</p>

Spring Break