

## Key Stage 5 Curriculum Map 2021-22

### Year 13 A level Physics

#### Term 1

Subject: Physics	Year: 13		
Focus/Topic	UAE Links	HPL Links	Home Learning / Reading
<b>Baseline assessments, curriculum orientation and expectations</b>			
<ul style="list-style-type: none"> <li>(DAR) Gravitational Fields</li> <li>(SMA) Introduction to SHM</li> </ul>	Ain Dubai observation wheel Type pressure at high temperatures in UAE	<b>VAA: Empathetic</b> 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>  <b>ACP: Analysing</b> Critical thinking: <i>The ability to deduct, hypothesise, reason, seek supporting evidence</i>	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"> <li>(DAR) Gravitational potential</li> <li>(SMA) SHM Circular Motion, Centripetal Examples</li> </ul>	Use of construction materials in 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"> <li>(DAR) Gravitational field strength</li> <li>(SMA) Pendulums, mass spring systems</li> </ul>	Formula Rossa roller coaster		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"> <li>(DAR) Planetary fields</li> <li>(SMA) Internal energy and Temperature, SHC</li> </ul>	Hazza Al Mansouri UAE astronaut		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"> <li>(DAR) Satellite motion</li> <li>(SMA) SHC RP, Change of state</li> </ul>	UAE satellites		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"> <li>(DAR) Intro to Electric fields</li> <li>(SMA) SLH, <math>PV = nRT</math> introduction</li> </ul>	Barakah nuclear power plant		Booklet questions. Physics and maths tutor past papers and

			guided reading for every lesson. Always prepare the next lesson.
<b>Mid Term Break</b>			
<ul style="list-style-type: none"> <li>(DAR) Electric Fields (Radial and Uniform)</li> <li>(SMA) Kinetic theory of gases</li> </ul>	N/A	<p><b>VAA: Agile</b> 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><b>ACP: Linking</b> Connection finding: <i>The ability to use connections from past experiences to seek possible generalisations</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"> <li>(DAR) Electric field strength</li> <li>(SMA) Revision SHM, Test</li> </ul>	Hazza Al Mansouri UAE astronaut		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"> <li>(DAR) Electrical Potential</li> <li>(SMA) Energy and Mass</li> </ul>	Electricity in 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"> <li>(DAR) Comparing Electric and gravitational fields</li> <li>(SMA) Nuclear Radius, Binding Energy</li> </ul>	Electricity power stations in 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"> <li>(DAR) RP Intro to capacitors, Energy stored in a capacitor</li> <li>(SMA) Fission and Fusion</li> </ul>	Uses of capacitors in 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"> <li>(DAR) Capacitor charge and discharge</li> <li>(SMA) Nuclear Reactor</li> </ul>	Barakah nuclear power plant		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"> <li>(DAR) Test / Recap so far</li> <li>(SMA) Test / Recap so far</li> </ul>	N/A		Booklet questions. Physics and maths tutor past papers and guided reading for every lesson. Always prepare the next lesson.
<b>Winter Break</b>			