

Key Stage 5 Curriculum Map 2021-22

Year 12 A level Physics

Term 1

Subject: Physics	Year: 12		
Focus/Topic	UAE Links	HPL Links	Home Learning / Reading
(DAR, SMA) Baseline assessments, curriculum orientation and expectations, Maths			
<ul style="list-style-type: none"> (DAR) Maths (SMA) Vectors and Scalars, Equilibrium, Introducing Moments 	Cranes in the UAE	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> ACP: Analysing 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"> (DAR) Current, Charge, Potential Difference (SMA) Moments practical 	Barakah nuclear power plant Electricity and circuits 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"> (DAR) Resistance, IV Graphs (SMA) Motion in a straight line, SUVATs, 	Barakah nuclear power plant Acceleration of 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"> (DAR) Circuit Rules (Series and Parallel) (SMA) Measuring g RP 	Nuclear energy in UAE Electricity and circuits 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"> (DAR) Resistivity, Internal Resistance (SMA) Projectile Motion 	Use of radioactive isotopes in medicine 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"> (DAR) Resistivity, Internal Resistance required practical analysis 	Motion gate roller coasters		Booklet questions. Physics and maths tutor past papers and

<ul style="list-style-type: none"> (SMA) Newton's Laws, Terminal Velocity 			guided reading for every lesson. Always prepare the next lesson.
Mid Term Break			
<ul style="list-style-type: none"> (DAR) Internal Resistance, EMF, Potential Dividers (SMA) Inclined Plane, Momentum 	Electricity and circuits in the UAE	<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>	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) Electricity Test + Feedback (SMA) Conservation of Momentum, Impulse 	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"> (DAR) Oscillations and Energy and Oscillations (SMA) GPE, KE, Work Done, Power 	Burj Khalifa, Ain Dubai observation wheel		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) Forces Vibrations and Resonance (SMA) Young's Modulus 	Burj Khalifa – tallest building in the world		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) Waves and Vibrations (SMA) Recap of Matter and radiation 	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"> (DAR) Measuring Waves (SMA) Inclined Plane, Momentum 	How do you calculate the speed of a wave, Laguna waterpark		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) Wave Properties (SMA) Conservation of Momentum, Impulse 	How do you calculate the speed of a wave, Laguna waterpark		Booklet questions. Physics and maths tutor past papers and guided reading for every lesson. Always prepare the next lesson.
Winter Break			