

Key Stage 5 Curriculum Map 2021-22

Year 12 AS level Physics

Term 2

| Subject: Physics | Year: 12 | | |
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| 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 | 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, 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 | | | |

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| <ul style="list-style-type: none">(DAR, TAM) Diffraction and interference(SMA) Particles and anti-particles | Use of particles with hospital treatment Nuclear Power station in Abu Dhabi | 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> ACP: Linking Connection finding: <i>The ability to use connections from past experiences to seek possible generalisations</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, TAM) Refraction and total internal reflection(SMA) discovery of the nucleus, alpha beta and gamma | Mirages within the desert Nuclear Power station in Abu Dhabi | | 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) Photoelectricity(SMA) the dangers of radioactivity | Nuclear Power station in Abu Dhabi | | 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) Collisions with atoms, energy levels(SMA) Radioactive isotopes in use | Nuclear Power station in Abu Dhabi | | 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) X-rays and wave particle duality(SMA) Nuclear energy levels | Nuclear Power station in Abu Dhabi | | 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) Review(SMA) Review | | | 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) Assessment(SMA) Assessment | | | Booklet questions. Physics and maths tutor past papers and guided reading for every lesson. Always prepare the next lesson. |
| Spring Break | | | |