



Physics

Triple

Year 9

KS3

Curriculum Details

Modules	Content	Homework	Parent / Carer Support
P3 Energy resources	<p>P3.1 Energy demands</p> <p>P3.2 Energy from wind and water</p> <p>P3.3 Power from the Sun and the Earth</p> <p>P3.4 Energy and the environment</p> <p>P3.5 Big energy issues</p>	<p>The students are given a homework book, either higher tier or foundation tier based on their Kimberley School Target.</p> <p>The students will be allocated pages to complete in this book for homework, which correspond to the lessons taught in class.</p> <p>The questions involve:</p> <ul style="list-style-type: none"> • Key word tasks • Calculations • Recall of facts • Description of processes • Explanations 	<p>Help them revise from the classwork books.</p> <p>Ensure they complete homework on time.</p> <p>Encourage them to ask their teachers for help if they are stuck.</p>
P1 Conservation and dissipation of energy	<p>P1.1 Changes in energy stores</p> <p>P1.2 Conservation of energy</p> <p>P1.3 Energy and work</p> <p>P1.4 Gravitational energy stores</p> <p>P1.5 Kinetic energy and elastic energy stores</p> <p>P1.6 Energy dissipation</p> <p>P1.7 Energy and efficiency</p> <p>P1.8 Electrical appliances</p> <p>P1.9 Energy and power</p>	<p>The questions involve:</p> <ul style="list-style-type: none"> • Key word tasks • Calculations • Recall of facts • Description of processes • Explanations 	<p>Test knowledge and use of key words and terminology.</p> <p>Help revision of key topics and required practical activities completed in class.</p> <p>Encourage revision methods such as using flashcards to summarise and test knowledge.</p>
P2 Energy transfer by heating	<p>P2.1 Energy transfer</p> <p>P2.2 Infrared radiation (triple only)</p> <p>P2.3 More about infrared radiation (triple only)</p> <p>P2.4 Specific heat capacity – Required Practical Activity</p> <p>P2.5 Heating and insulating buildings</p>		
P6 Molecules and matter	<p>P6.1 Density – Required Practical Activity</p> <p>P6.2 States of matter</p> <p>P6.3 Changes of state</p> <p>P6.4 Internal energy</p> <p>P6.5 Specific latent heat</p> <p>P6.6 Gas pressure and temperature</p> <p>P6.7 Gas pressure and volume</p>		Exam Board: AQA



Physics Triple

Year 10

KS4

Curriculum Details

Modules	Content	Homework	Parent / Carer Support
P4 Electric circuits	P4.1 Electrical charges and fields P4.2 Current and charge P4.3 Potential difference and resistance – Required Practical Activity P4.4 Component characteristics – Required Practical Activity P4.5 Series circuits P4.6 Parallel circuits	The students are given a homework book, either higher tier or foundation tier based on their Kimberley School Target. The students will be allocated pages to complete in this book for homework, which correspond to the lessons taught in class. The questions involve: <ul style="list-style-type: none">• Key word tasks• Calculations• Recall of facts• Description of processes• Explanations	Help them revise using revision cards. Help them revise from the classwork books. Ensure they complete homework on time. Encourage them to ask their teachers for help if they are stuck
P5 Electricity in the home	P5.1 Alternating current P5.2 Cables and plugs P5.3 Electrical power and potential difference P5.4 Electrical currents and energy transfer P5.5 Appliances and efficiency		
P7 Radioactivity	P7.1 Atoms and radiation P7.2 The discovery of the nucleus P7.3 Changes in the nucleus P7.4 More about alpha, beta, and gamma radiation P7.5 Activity and half-life P7.6 Nuclear radiation in medicine P7.7 Nuclear fission P7.8 Nuclear fusion P7.9 Nuclear issues		
P8 Forces in balance	P8.1 Vectors and Scalars P8.2 Forces between objects P8.3 Resultant forces P8.4 Moments at work P8.5 More about levers and gears P8.6 Centre of mass P8.7 Moments in equilibrium P8.8 Parallelogram of forces (higher tier only) P8.9 Resolution of forces (higher tier only)		
P9 Motion	P9.1 Speed and distance-time graphs P9.2 Velocity and acceleration P9.3 More about velocity-time graphs P9.4 Analysing motion graphs		
P10 Force and motion	P10.1 Force and acceleration – Required Practical Activity P10.2 Weight and terminal velocity P10.3 Forces and braking P10.4 Momentum (higher tier only) P10.5 Forces and elasticity – Required Practical Activity		
P11 Force and pressure (triple only)	P11.1 Pressure and surfaces P11.2 Pressure in a liquid (higher tier only) P11.3 Atmospheric pressure P11.4 Upthrust and flotation (higher tier only)		



Physics

Triple

Year 11

KS4

Curriculum Details

Modules	Content	Homework	Parent / Carer Support
P12 Wave Properties	P12.1 The nature of waves P12.2 The properties of waves P12.3 Reflection and refraction (higher tier only) P12.4 More about waves - Required Practical Activity P12.5 Sound waves (triple only and higher tier only) P12.6 Ultrasound (triple only and higher tier only) P12.7 Seismic waves (triple only and higher tier only)	The students are given a homework book, either higher tier or foundation tier based on their Kimberley School Target. The students will be allocated pages to complete in this book for homework, which correspond to the lessons taught in class. The questions involve: Key word tasks: <ul style="list-style-type: none"> • Calculations • Recall of facts • Description of processes • Explanations 	Help them revise using revision cards. Help them revise from the classwork books. Ensure they complete homework on time. Encourage them to ask their teachers for help if they are stuck
P13 Electromagnetic waves	P13.1 The electromagnetic spectrum P13.2 Light, infrared, microwaves and radio waves – Required Practical Activity P13.3 Reflection and refraction P13.4 Ultraviolet, X-rays, gamma rays P13.5 X-rays in medicine		
P14 Light (triple only)	P14.1 Reflection of light P14.2 Refraction of light P14.3 Light and colour P14.4 Lenses P14.5 Using lenses		
P15 Electromagnetism	P15.1 Magnetic fields P15.2 Magnetic fields of electric currents P15.3 Electromagnets in devices (triple only) P15.4 The motor effect (higher tier only) P15.5 The generator effect (triple only and higher tier only) P15.6 The alternating-current generator (triple only and higher tier only) P15.7 Transformers (triple only and higher tier only) P15.8 Transformers in action (triple only and higher tier only)		
P16 Space (triple only)	P16.1 Formation of the solar system P16.2 The life history of a star P16.3 Planets, satellites and orbits P16.4 The expanding universe P16.5 The beginning and future of the universe		

Study Guides Available:

CGP Study and question books (will last until the end of Year 11) Purchase online through sQuid, and can be collected from Mr Murray in S9 - £20 for triple science

AQA Physics revision guide Oxford Press - Triple Physics from Amazon Approximately £6. If purchasing these ensure your child knows whether they are studying Combined Science, or Triple Science

BBC Bitesize Key Stage 3 - www.bbc.co.uk/bitesize

Extra parental support

- Ensuring students complete homework on time.
- Encouraging them to seek help if they are struggling.
- Supporting students to revise for end of chapter tests.
- Helping students to review tests to see where to improve and set targets to ensure progress.