

## Curriculum Overview – Year 10 Physics

Unit Title	Learning	How can parents best support?
P1 – Changes in energy stores	<p>Students will learn</p> <ul style="list-style-type: none"> <li>• Energy changes in a system, and the ways energy is stored before and after such changes</li> <li>• Calculating changes in energy including <math>K_e</math>, GPE, <math>E_e</math> and a change in thermal energy.</li> <li>• The definition of power and the equations used to calculate power.</li> <li>• The conservation and dissipation of energy.</li> <li>• How to calculate efficiency of energy changes.</li> <li>• How national and global energy resources are utilised.</li> </ul>	<p>Encourage the use of Tassomai homework completion</p> <p>Engage in scientific discussions</p> <p>Encourage the use of the Bitesize link below</p> <p><a href="https://www.bbc.co.uk/bitesize/topics/z89ddxs">https://www.bbc.co.uk/bitesize/topics/z89ddxs</a></p> <p>Use the knowledge organiser to learn the meanings of essential keywords</p>
P2 – Electricity	<p>Students will learn</p> <ul style="list-style-type: none"> <li>• Current, potential difference and resistance.</li> <li>• Series and parallel circuits.</li> <li>• Domestic uses and safety</li> <li>• Mains electricity</li> <li>• Energy transfers</li> <li>• Static electricity (Triple science only)</li> </ul>	<p>Encourage the use of Tassomai homework completion</p> <p>Engage in scientific discussions</p> <p>Encourage the use of the Bitesize link below</p> <p><a href="https://www.bbc.co.uk/bitesize/topics/zp3ftv4">https://www.bbc.co.uk/bitesize/topics/zp3ftv4</a></p> <p>Use the knowledge organiser to learn the meanings of essential keywords</p>
P3- Particle Model of Matter	<p>Students will learn</p> <ul style="list-style-type: none"> <li>• Density</li> <li>• Changes of state</li> <li>• Specific latent heat</li> <li>• Specific latent capacity</li> </ul>	<p>Encourage the use of Tassomai homework completion</p> <p>Engage in scientific discussions</p> <p>Encourage the use of the Bitesize link below</p> <p><a href="https://www.bbc.co.uk/bitesize/topics/z3ybb82">https://www.bbc.co.uk/bitesize/topics/z3ybb82</a></p>

	<ul style="list-style-type: none"> <li>• Pressure</li> </ul>	Use the knowledge organiser to learn the meanings of essential keywords
P4- Atomic Structure	<p>Students will learn</p> <ul style="list-style-type: none"> <li>• Structure of the atom</li> <li>• History of the atom</li> <li>• Isotopes and radiation</li> <li>• Nuclear fusion and fission</li> </ul>	<p>Encourage the use of Tassomai homework completion</p> <p>Engage in scientific discussions</p> <p>Encourage the use of the Bitesize link below <a href="https://www.bbc.co.uk/bitesize/topics/zshssrd">https://www.bbc.co.uk/bitesize/topics/zshssrd</a></p> <p>Use the knowledge organiser to learn the meanings of essential keywords</p>
P5 - Forces	<p>Students will learn:</p> <ul style="list-style-type: none"> <li>• Scalars and Vectors</li> <li>• Speed, distance, time, velocity, acceleration</li> </ul>	<p>Encourage the use of Tassomai homework completion</p> <p>Engage in scientific discussions</p> <p>Encourage the use of the Bitesize link below <a href="https://www.bbc.co.uk/bitesize/topics/ztmstv4">https://www.bbc.co.uk/bitesize/topics/ztmstv4</a></p> <p>Use the knowledge organiser to learn the meanings of essential keywords</p>