

Term	Topic(s)	Assessed work	Additional details
1 a 7 weeks  14 lessons	1: Key Concepts <ul style="list-style-type: none"> <li>• What is Physics?</li> <li>• Big and Small</li> </ul> 3: Conservation of energy <ul style="list-style-type: none"> <li>• Conservation of energy</li> <li>• Kinetic Energy</li> <li>• Gravitational Potential Energy</li> <li>• Dissipation of energy</li> <li>• Efficiency</li> <li>• Home Insulation</li> <li>• Thermal Conductivity</li> <li>• Non-Renewable Resources</li> <li>• Renewable Resources</li> </ul>	Topic 3 End of Unit test (w/b 18.10.21)	
1b 7 weeks  14 lessons	6: Radioactivity <ul style="list-style-type: none"> <li>• Structure of the Atom</li> <li>• Development of the Atomic Model</li> <li>• Energy Levels</li> <li>• Background Radiation</li> <li>• Radioactivity</li> <li>• Ionisation</li> <li>• Nuclear Equations</li> <li>• Half-Life</li> <li>• Uses of Radioactivity</li> <li>• Dangers of Radioactivity</li> <li>• Medical Uses of Radioactivity</li> <li>• Fission and Fusion</li> <li>• Nuclear Power</li> </ul>	Topic 6 End of Unit test (w/b 3.1.22)	
2a 7 weeks  14 lessons	2: Forces and Motion <ul style="list-style-type: none"> <li>• Scalars and Vectors</li> <li>• Measuring Speed</li> <li>• Distance-Time Graphs</li> <li>• Acceleration</li> <li>• Speed-Time Graphs</li> <li>• Equations of Motion</li> <li>• Representing Forces</li> <li>• Newton's First Law</li> <li>• Mass and Weight</li> <li>• Circular Motion (Higher only)</li> <li>• Newton's Second Law</li> <li>• Core Practical – <math>F=ma</math></li> <li>• Newton's Third Law</li> </ul>		

<p>2b 5 weeks  10 lessons</p>	<p>2: Forces and Motion (continued)</p> <ul style="list-style-type: none"> <li>• Momentum (Higher only)</li> <li>• Collisions (Higher only)</li> <li>• Stopping Distances</li> <li>• Crash Hazards</li> </ul> <p>8: Forces doing Work</p> <ul style="list-style-type: none"> <li>• Work</li> <li>• Power</li> </ul>	<p>Topic 2 End of Unit test (w/b21.3.22)</p>	
<p>3a 5 weeks  10 lessons</p>	<p>9: forces and their Effects</p> <ul style="list-style-type: none"> <li>• Newton's Laws</li> <li>• Vector Diagrams</li> <li>• Moments</li> <li>• Gears</li> </ul>	<p>13<sup>th</sup> June -Exam week 20<sup>th</sup>/27<sup>th</sup> June-work experience Topic 8/9 End of Unit test (w/b 9.5.22)</p>	
<p>3b 7 weeks  14 lessons</p>	<p>11: Static Electricity</p> <ul style="list-style-type: none"> <li>• Static Electricity</li> <li>• Uses of Static Electricity</li> <li>• Dangers of Static Electricity</li> <li>• Electric Fields</li> </ul> <p>10: Electricity</p> <ul style="list-style-type: none"> <li>• What is a Circuit</li> <li>• Series and Parallel</li> <li>• Electric Current</li> <li>• Potential Difference</li> </ul>		