

<u>Calendar</u>	<u>Big Question/Theme</u>	<u>Small Questions</u>	<u>Assessment Opportunities and Criteria. Teacher feedback point (TFP)</u>	<u>Homework</u>
Autumn 1 Year 12  Topic Module 3.1 and 3.2	How can the motion of a moving object be determined?	<ol style="list-style-type: none"> <li>1. What and how are the SUVAT equations use?</li> <li>2. How can the SUVAT equations be applied to projectile motion?</li> <li>3. How is the motion of an object affected by resistive forces?</li> <li>4. What are Newton's Laws of motion?</li> <li>5. Analyse the motion of a non-uniformly accelerated object graphically.</li> <li>6. Describe the drag forces on solid surfaces and through gases and liquids.</li> <li>7. Explain and apply the principle of moments and torque</li> </ol>	<p>Each Module consists of testing phases within the lessons using past exam questions for each submodule.</p> <p>Exam questions are obtained from Exam Builder OCR.</p> <p>Teacher will mark exam questions and provide a feedback to students and supply mark schemes and teacher notes on exam questions.</p>	<p>Homework is 40-50 marks of past exam questions as well as an Isaac Physics test online.</p> <p>Students homework is marked and handed back with red pen amendments.</p> <p>Student results will be recorded on a tracking sheet.</p>

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Autumn 1 Year 13 Topic Module 5.1	How does the kinetic model of matter explain how thermal energy corresponds to the motion of particles within matter?	<ol style="list-style-type: none"> <li>1. Explain how the SHC (specific heat capacity) of a mass could be calculated.</li> <li>2. Apply a suitable method to determining the SHC using electrical equipment.</li> <li>3. Explain how the Specific latent heat of a mass could be determined.</li> <li>4. Describe the similarities and differences between latent heat of fusion and latent heat of vaporisation.</li> <li>5. Recall the ideal gas law.</li> <li>6. Apply the ideal gas law's relationships; volume, pressure and temperature.</li> <li>7. Explain how and when Boyle's law may be applied.</li> </ol>	<p>Each Module consists of testing phases within the lessons using past exam questions for each submodule.</p> <p>Exam questions are obtained from Exam Builder OCR.</p> <p>Teacher will mark exam questions and provide a feedback to students and supply mark schemes and teacher notes on exam questions.</p>	<p>Homework is 40-50 marks of past exam questions as well as an Isaac Physics test online.</p> <p>Students homework is marked and handed back with red pen amendments.</p> <p>Student results will be recorded on a tracking sheet.</p>

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Autumn 1 Year 13 Topic Module 5.5	How can the large scale universe be described and predicted in the future?	<ol style="list-style-type: none"> <li>1. How does a main sequence star form?</li> <li>2. How are elements formed within stars?</li> <li>3. How are super heavy elements created?</li> <li>4. Explain the balance of forces and pressures inside the cores of stars.</li> <li>5. Describe how the mass affects the life cycle and death of stars.</li> <li>6. Describe the characteristics of difference types of stars.</li> <li>7. Explain how the H-R diagram can be used to describe the classification of stars.</li> <li>8. How can the light from stars be used to determine the elemental composition of the star?</li> <li>9. Explain how electron energy levels correspond to the colour(s) of light emitted.</li> <li>10. Use diffraction methods to determine the wavelength of light.</li> </ol>	<p>Each Module consists of testing phases within the lessons using past exam questions for each submodule.</p> <p>Exam questions are obtained from Exam Builder OCR.</p> <p>Teacher will mark exam questions and provide a feedback to students and supply mark schemes and teacher notes on exam questions.</p>	<p>Homework is 40-50 marks of past exam questions as well as an Isaac Physics test online.</p> <p>Students homework is marked and handed back with red pen amendments.</p> <p>Student results will be recorded on a tracking sheet.</p>