

## YEAR 9 GCSE (A- F) – PHYSICS

**WEEK 11 ( 8<sup>th</sup> November to 12<sup>th</sup> November )**

**Work Sent to the students through Google classroom**

**Topic: Renewable Resources & Properties of waves**

**Resources:** Student text book, Worksheet, GCSE science free lesson video, power point.

Date	Lesson	Topic	Mode of Teaching	
<p>8<sup>th</sup> Nov. Sunday <b>(Girls)</b></p> <p>8<sup>th</sup> Nov. Sunday <b>(Boys)</b></p>	<p>4</p> <p>8</p>	<p><b>Learning objective:</b></p> <ul style="list-style-type: none"> <li>• Describe the main energy sources available for use on Earth (including fossil fuels, nuclear fuel, wind, hydro-electricity, the tides and the Sun), and compare the ways in which both renewable and non-renewable sources are used.</li> <li>• Explain patterns and trends in the use of energy resources.</li> </ul> <p><b>Learning outcome:</b></p> <ul style="list-style-type: none"> <li>• Describe the source of energy for different renewable resources.</li> <li>• Describe the ways in which the different energy resources are used.</li> <li>• Explain why we cannot use only renewable energy resources.</li> <li>• Explain how the use of renewable energy resources is changing.</li> </ul>	<p><b>Zoom</b></p>	<p>Teacher uses power point presentation that contains interactive questions.</p>
<p>10<sup>th</sup> Nov. Tuesday <b>(Girls)</b></p>	<p>3</p> <p>5</p>	<p><b>Learning Objective :</b></p> <ul style="list-style-type: none"> <li>• Recall that waves transfer energy and information without transferring matter.</li> <li>• Define and use the terms frequency and wavelength as applied to waves.</li> <li>• Use the terms, amplitude, period and wave velocity as applied to waves.</li> <li>• Recall and use both the equations below for all waves: wave speed (metre/second, m/s) = frequency (hertz, Hz) × wavelength</li> </ul>	<p><b>Zoom</b></p>	<p>Teacher uses power point presentation that contains interactive questions.</p>

<p>12<sup>th</sup> Nov. Thursday <b>(Boys)</b></p>		<p>(metre, m)     <math>v = f \times \lambda</math>  wave speed (metre/second, m/s) =  distance (metre, m) ÷ time (second, s)  <math>v = x/t</math></p> <p><b>Learning outcome :</b></p> <ul style="list-style-type: none"> <li>• Recall that waves transfer energy and information but do not transfer matter.</li> <li>• Describe waves using the terms frequency, wavelength, amplitude, period and velocity.</li> <li>• Recall and use the equation relating wave speed, distance and time.</li> <li>• Recall and use the equation relating wave speed, frequency and wavelength</li> </ul>		
<p>10<sup>th</sup> Nov. Tuesday <b>(Girls)</b></p> <p>12<sup>th</sup> Nov. Thursday <b>(Boys)</b></p>	<p>4</p> <p>6</p>	<p><b>Learning Objective :</b></p> <ul style="list-style-type: none"> <li>• Complete the text book questions and worksheet questions.</li> </ul> <p><b>Learning outcome:</b></p> <ul style="list-style-type: none"> <li>• Students will be able to reinforce the concepts learned in the previous lesson by solving the worksheet.</li> </ul>	<p><b>GC</b></p>	<p>Worksheet assigned through GC. Instruction will be given in GC to complete the worksheet.</p>