

YEAR 9 GCSE (A- F) – PHYSICS

WEEK 4 (20th Sept to 24th Sept)

Work Sent to the students through Google classroom

Topic: Energy Efficiency and Keeping warm

Resources: Worksheet, GCSE science free lesson video, power point.

Date	Lesson	Topic	Mode of Teaching	
20 th Sept. Sunday (Girls)	4	<p>Learning Objective :</p> <ul style="list-style-type: none"> *Explain that mechanical processes become wasteful when they cause a rise in temperature so dissipating energy in the surroundings. * Discuss the ways of reducing unwanted energy transfer including through lubrication, thermal insulation. 		
20 th Sept. Sunday (Boys)	8	<ul style="list-style-type: none"> * Recall and use the equation: efficiency = (useful energy transferred by the device) / (total energy supplied to the device). * Explain how efficiency can be increased. <p>Learning outcome :</p> <ul style="list-style-type: none"> *Explain some ways in which energy is transferred wastefully by mechanical processes. *Explain some ways of reducing unwanted energy transfers in mechanical processes. *Define what efficiency means. *Explain how efficiency can be increased. *Recall and use the equation for calculating energy efficiency. 	Zoom	<p>Teacher uses power point presentation that contains interactive questions.</p> <p>H.W: Energy efficiency worksheet</p>

<p>22nd Sept. Tuesday – (Girls)</p> <p>24th Sept. Thursday (Boys)</p>	<p>3</p> <p>5</p>	<p>Learning Objective : *Discuss how heat is transferred by conduction, convection and radiation. *Explain how heat transfers can be minimised by a vacuum flask.</p> <p>Learning outcome *Describe how heat is transferred by conduction, convection and radiation. *Define the meaning of thermal conductivity. *Explain how heat transfers can be minimised by a vacuum flask.</p>	<p>Zoom</p>	<p>Teacher uses power point presentation that contains interactive questions.</p>
<p>22nd Sept. Tuesday – (Girls)</p> <p>24th Sept. Thursday (Boys)</p>	<p>4</p> <p>6</p>	<p>Learning Objective : To solve the worksheet by applying the concept of conduction, convection and radiation.</p> <p>Learning outcome: Students will be able to reinforce the concepts learned in the previous lesson by doing the worksheet</p>	<p>GC</p>	<p>Worksheet assigned through GC Instruction will be given in the GC to complete the worksheet</p>