

YEAR 11 (A- F) – PHYSICS(GCSE)

WEEK 10 (1st November to 5th November)

Work Sent to the students through Google classroom

Topic:– SP 10.i Electrical safety

Resources: Text book, Worksheets, GCSE science free lesson video& power points.

Date	Lesson	Topic	Mode of Teaching	
<p>1st Nov Sunday (Girls)</p> <p>3rd Nov. Tuesday – (boys)</p>	<p>3</p> <p>1</p>	<p>Learning Objective : Explain the difference in function between the live and the neutral mains input wires.</p> <p>Explain why switches and fuses should be connected in the live wire of a domestic circuit.</p> <p>Learning outcome :</p> <p>Identify few electrical hazards and the ways of reducing the risk of harm from those hazards.</p> <p>Demonstrate a three pin plug and explain the difference between the functions of the live and the neutral wires.</p> <p>Recall the potential differences between the live, neutral and earth mains wires.</p> <p>Describe what is short circuit and how can we avoid it.</p> <p>Explain how a fuse cuts off an electrical circuit.</p> <p>Be able to choose the correct rating of fuse for a device .</p>	<p>Zoom</p>	<p>Teacher uses power point presentation that contains interactive questions and online simulation to discuss how electrical hazards can be avoided</p>
<p>2nd Nov Mon (Boys)</p> <p>2nd Nov Monday – (girls)</p>	<p>4</p> <p>1</p>	<p>Assessment Topics : SP 10 d - Resistance SP 10 e- More about resistance SP 10 f- Transferring Energy SP 10 g- Power</p> <p>Learning outcome: assessing students knowledge in the given topics</p>	<p>zoom</p>	<p>Assessment will be given in google form</p>

3 rd Nov Tuesday – (boys)	2	<p>Learning Objective :</p> <p>Explain the dangers of providing any connection between the live wire and earth</p> <p>Explain the function of an earth wire and of fuses or circuit breakers in ensuring safety. .</p> <p>Learning outcome</p> <p>Explain the danger of a connection between the live wire and earth.</p> <p>Explain how the earth wire and the fuse make circuits safer.</p> <p>Explain how circuit breakers make circuits safer</p> <p>Compare and contrast a fuse and a circuit breaker</p> <p>Recall few appliances that only need Live and Neutral wires, and explain why they do not need an Earth wire.</p> <p>Recall the symbol of double insulation</p>	Zoom	Teacher uses power point presentation that contains interactive questions
2 nd Nov. Monday – (girls)	2			
4 th Nov. Wednesda y – (boys)	7	<p>Learning Objective :</p> <p>Define an electric field as the region where an electric charge experiences a force.</p> <p>Describe the shape and direction of the electric field around a point charge and between parallel plates and relate the strength of the field to the concentration of lines.</p> <p>Learning outcome</p> <p>Recall what an electric field is.</p> <p>Recall how the direction of an electric field is defined.</p> <p>Interpret information shown by field lines.</p> <p>Describe the shape and direction of the electric field around a point charge and between charged electrical plates.</p>	Zoom	Teacher uses power point presentation that contains interactive questions
4 th Nov Wednesda y– (girls)	1			

5 th Nov Thursday – (boys)	7	Learning Objective: Reinforce their understanding of electrical circuit, resistance in various components, electrical energy and electrical safety.		Instruction will be given in zoom to complete the given worksheet
5 th Nov Thursday – (girls)	3	Learning outcome : Solve exam style questions on electricity and circuits and clear their doubts by discussion on this topic	zoom	

YEAR 11 G/H– PHYSICS (IGCSE)

WEEK 10 (1st November to 5th November)

Work sent to the students through Google classroom

Topic: Unit 6.21 Electric motors and electromagnetic induction

Lesson Objective: Explain the working of moving coil loud speaker and electric motor

Explain the term electromagnetic induction

Resources: Text book, Worksheet file, interactive power point and online simulations.

Date	Lesson	Learning objective and Success Criteria	Mode of teaching	
2 nd Nov Monday (boys & girls)	8	Assessment -3 Topics Unit 2.6 - Mains electricity (Page no.59-66) Unit 2.8-Electrical resistance (Page no.75-83)	GC	Teacher gives the test paper in Google forms.

3 rd Nov Tuesday (boys & girls)	7	<p>LO- To explain why a force is exerted on a current-carrying wire in a magnetic field.</p> <p>Learning outcome -</p> <ul style="list-style-type: none"> • able to why a force is exerted on a current-carrying wire in a magnetic field • able to use the left-hand rule to predict the direction of the resulting force when a wire carries a current perpendicular to a magnetic field. 	Zoom	Teacher uses power point presentation to explain why a force is exerted on a current-carrying wire in a magnetic field.
3 rd Nov Tuesday (boys & girls)	8	<p>LO- To explain the working of moving coil loud speaker and the electric motor</p> <p>Learning outcome-</p> <ul style="list-style-type: none"> • able to explain the working of moving coil loud speaker. • able to explain the working of electric motor. 	Zoom	Teacher uses power point presentation to explain the working of moving coil loud speaker and the electric motor.
4 th Nov Wednesd ay (boys & girls)	8	<p>LO- To discuss the text book and worksheet file questions</p> <p>Learning outcome-</p> <ul style="list-style-type: none"> • able to reinforce the concepts electromagnetism by solving the questions. 	Zoom	Teacher uses power point presentation to discuss the questions.
5 th Nov Thursday (boys & girls)	2	<p>LO- To explain the term electromagnetic induction.</p> <p>Learning outcome-</p> <ul style="list-style-type: none"> • able to know that a voltage is induced in a conductor or a coil when it moves through a magnetic field or when a magnetic field changes through it and describe the factors that affect the size of 		Teacher uses power point presentation to explain the term electromagnetic induction.

		<p>the induced voltage</p> <ul style="list-style-type: none">• able to describe the generation of electricity by the rotation of a magnet within a coil of wire and of a coil of wire within a magnetic field, and describe the factors that affect the size of the induced voltage	Zoom	
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