

YEAR 11 (A- F) – PHYSICS (GCSE)

WEEK 8 (18th October to 22nd October)

Work Sent to the students through Google classroom

Topic:– SP 10. Electricity and Circuit

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

Date	Lesson	Topic	Mode of Teaching	
19 th Oct Mon (Boys)	4	<p>Learning Objective : <i>Construct electrical circuits to investigate the relationship between potential difference, current and resistance for a resistor and a filament lamp.</i></p> <p>Learning outcome Describe the current/potential difference graphs for an ohmic conductor and for a filament lamp. Explain the shape of this graph. Explain how current and resistance change with potential difference in filament lamps</p>	Zoom	Teacher uses power point presentation that contains interactive questions.
18 th Oct. Sunday (Girls)	3			
20 th Oct. Tuesday – (boys)	1	<p>Learning Objective: Describe the difference between direct and alternating voltage. Explain how current varies with potential difference for a diode (including LED) and how this relates to resistance</p> <p>Learning outcome : Describe direct current (d.c.) as movement of charge in one direction only and that in alternating current (a.c.) the movement of charge changes direction. Explain how the design and use of circuits can be used to explore the variation of resistance in a diode. Describe the uses of diodes Analyse the VI graph of diode and identify a correlation between the two variables.</p>	Zoom	Teacher uses power point presentation that contains interactive questions
19 th Oct. Monday – (girls)	1			
20 th Oct Tuesday	2	<p>Learning Objective : Describe how the resistance of a light-dependent resistor (LDR) varies with light intensity and that</p>	Zoom	Teacher uses power point presentation

<p>– (boys)</p> <p>19th Oct Monday – (girls)</p>	2	<p>of a thermistor varies with change of temperature Explain how the design and use of circuits can be used to explore the variation of resistance in the LDR and thermistor</p> <p>Learning outcome Describe how the resistance of a light-dependent resistor (LDR) decreases as light intensity increases. Describe how the resistance of a thermistor varies with changing temperature Describe the uses of LDRs and thermistors.</p>		<p>that contains interactive questions</p> <p>Complete the text book questions</p>
<p>21st Oct Wednes day – (boys)</p> <p>21st Oct Wednes day– (girls)</p>	7 1	<p>Learning Objective : Explain how the design and use of circuits can be used to explore the variation of resistance in the following devices: a) filament lamps b) diodes c) thermistors d) LDRs.</p> <p>Learning outcome Explain how current and resistance change with potential difference in filament lamps and diode Describe how the resistance of a LDR or thermistor changes.</p>	GC	<p>Instruction will be given in the Google class room to complete the worksheet</p> <p>Worksheet SP10e.5</p>
<p>22nd Oct Thursday – (boys)</p> <p>22nd Oct. Thursday – (girls)</p>	7 3	<p>ASSESSMENT -2</p> <p>Topics : SP 9b –Vector diagrams SP 9a-Rotational forces SP10 a- Electric Circuits SP10 b- Current and potential difference SP 10 c- Current, charge and energy</p>	Zoom	<p>Teacher uses Google forms.</p> <p>Test will be assigned in GC to turn in the written work.</p>

YEAR 11 G/H – PHYSICS (IGCSE)

WEEK 8 (18th October to 22nd October)

Work sent to the students through Google classroom

Topic: Unit 2.6 Mains Electricity

Lesson Objective: Understand how the use of insulation, double insulation, earthing, fuses and circuit breakers protects the device or user in a range of domestic appliances.

Explain the terms electrical power and energy transferred.

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

Date	Lesson	Learning objective and Success Criteria	Mode of teaching	
19 th Oct Monday (boys & girls)	8	LO - Understand how the use of insulation, double insulation, earthing, fuses and circuit breakers protects the device or user in a range of domestic appliances Learning outcome- <ul style="list-style-type: none">• able to identify the circuit symbol of fuse.• able to explain the importance of safety devices in electrical appliances.	Zoom	Teacher uses the power point presentation to explain the importance of safety devices in electrical appliances.

20 th Oct Tuesday (boys & girls)	7	<p>LO- Explain the terms electrical power and energy transferred.</p> <p>Learning outcome -</p> <ul style="list-style-type: none"> • able to define the term electrical power. • able to use and apply the relation between power, current and voltage • able to use and apply the relation between energy , current, voltage and time 	Zoom	Teacher uses power point presentation to explain the terms electrical power and energy transferred.
20 th Oct Tuesday (boys & girls)	8	<p>Assessment- 2</p> <p>Topics Unit 2.9- Electric charge (page no.84-92)</p> <p>Unit 2.7- Current and voltage in circuits (Page no.67-74)</p>	Zoom	Teacher gives the assessment in google forms.
21 st Oct Wednesd ay (boys & girls)	8	<p>LO- To solve the worksheet file questions and text book questions.</p> <p>Learning outcome-</p> <ul style="list-style-type: none"> • able to recollect and apply their knowledge of the concepts LDR, thermistor and mains electricity by answering the questions. 	GC	Teacher gives instructions in GC to complete the worksheet file and textbook questions
22 nd Oct Thursday (boys & girls)	2	<p>LO- To discuss the worksheet file questions and text book questions.</p> <p>Learning outcome-</p> <ul style="list-style-type: none"> • able to reinforce the concepts LDR, thermistor and mains electricity. 	Zoom	Teacher uses power point presentation to discuss the worksheet file questions and text book questions.

