

YEAR 11 (A- F) – GCSE PHYSICS

WEEK 6 (4th October to 8th October)

Work Sent to the students through Google classroom

Topic:– SP 10. Electricity and Circuit and GL practice

Resources: Text book, Worksheets, GCSE science free lesson video& power points. GL practice worksheet in Google form

Date	Lesson	Topic	Mode of Teaching	
5 th Oct. Mon (Boys)	4	<p>Learning Objective :</p> <p>Describe the differences between series and parallel circuits.</p> <p>Learning outcome : state that the rules for p.d in a parallel and series circuits</p>	Zoom	Teacher uses power point presentation that contains interactive questions.
4 th Oct.. Sunday (Girls)	3	<p>Calculate the p.d across a component in a series or parallel circuit by using the p.d. rules.</p> <p>Analyse a variety of circuits to determine the current through, p.d. across.</p>		HW Questions from worksheet file
6 th Oct. Tuesday – (boys)	1	<p>Learning Objective:</p> <p>To reinforce the concepts of energy changes in a system, energy efficiency, forces and motion, wave motion, uses and dangers of em waves</p>	zoom	Teacher uses power point presentation and practice paper in google form to revise KS 4 topics
5 th Oct. Monday – (girls)	1	<p>Learning Outcome:</p> <p>Students will be able to recall the concepts learned in the previous lessons and apply their knowledge to answer the questions in the GL practice worksheet.</p>		
6 th Oct. Tuesday – (boys)	2	<p>Learning Objective:</p> <p>To reinforce the concepts of electricity, magnetism and electromagnetism, atomic structure, main features of the solar system.</p>	Zoom	Teacher uses power point presentation and practice paper in google form to revise KS 4 topics
5 th Oct. . Monday – (girls)	2	<p>Learning Outcome:</p> <p>Students will be able to recall the concepts learned in the previous lessons and apply their knowledge to answer the questions, in the GL practice worksheet.</p>		

7 th Oct Wednesday – (boys)	7	<p>Learning Objective: Explain how changing the resistance in a circuit changes the current and how this can be achieved using a variable resistor. Recall and use the equation: $V = I \times R$</p>		
7 th Oct Wednesday – (girls)	1	<p>Learning outcome : State that resistance restricts the size of a current in a circuit. Recall the symbols that represent resistors and variable resistor. Recall the factors affecting resistance.</p> <p>Explain the design and construction of series circuits which shows how a variable resistor changes the current in a circuit. Define the resistance of a component or circuit ($R = V/I$). Recall and use the equation to calculate the potential difference, the current or the resistance ($V = I \times R$)</p>	Zoom	Teacher uses power point presentation that contains interactive questions

YEAR 11 G/H (IGCSE) – PHYSICS

WEEK 6 (4th October to 8th October)

Work sent to the students through Google classroom

Topic: Unit 2.8 Electrical resistance

Lesson Objective: Describe I-V graph of filament lamp and diode

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

Date	Lesson	Learning objective and Success Criteria	Mode of teaching	
4 th Oct Monday (boys & girls)	8	LO- Investigate how current varies with voltage for a filament lamp Learning outcome - <ul style="list-style-type: none"> • able to describe how current varies with voltage for a filament lamp Plot the graph by using the data • able to explain how to plot negative values of current and voltage. • analyse I-V graph for a filament lamp . 	Zoom	Teacher uses power point presentation to discuss the current – voltage relation
5 th Oct Tuesday (boys & girls)	7	LO- Revision for GL exams Discuss and revise the relevant topics from National curriculum Learning Outcome: Students will be able to recall the concepts learned in the previous lessons and apply their knowledge to answer the questions in the GL practice worksheet	Zoom	Teacher will discuss the important topics required for GL examination
6 th Oct Tuesday (boys & girls)	8	LO- Revision for GL exams Discuss and revise the relevant topics from National curriculum Learning outcome- Students are able to recollect the concepts and reinforce the topics for GL examination by solving questions.	Zoom	Teacher will post the form in the google classroom. Students will solve the questions
7 th Oct Wednesday (boys & girls)	8	LO- Discuss the textbook questions and worksheet questions Learning outcome- <ul style="list-style-type: none"> • able to reinforce the concept resistance by solving questions. 	Zoom	Teacher uses power point presentation to discuss the answers
8 th Oct Thursday (boys & girls)	2	LO- Explain how current varies with voltage for diode. Learning outcome- <ul style="list-style-type: none"> • able to identify the circuit symbol of diode. • able to describe how diode works. • able to describe how current varies with voltage for a diode. • able to analyse I-V graph for a diode 	Zoom	Teacher uses power point presentation to discuss how current varies with voltage in a diode.

