YEAR 12A/ B –PHYSICS

WEEK 8 (10th May to 14th May) - 3 lessons for both batches

Work sent to the students through: Whatsapp group / Google classroom / Zoom Learning Platform

Topic: Refraction of light

Lesson Objective: The definition of refraction, and how to find and calculate the refractive index of a solid material

Resources: Student text book, worksheet file, interactive power point from Board works and Online animations

Date	Class	Lesson	Lesson objectives & Learning outcome	Mode of teaching	
10th May Sunday **14th** May Thursday	**12 A** **12 B**	8 3	**L.O-Assessment Learning Outcome-** Students will demonstrate mastery of basic principles of Electric circuit analysis learnt previously.	**GC**	Teacher uses Google form assessments to check whether the objectives are attained.
11th May Monday **12th** May Tuesday	**12 A** **12 B**	1 6	**L.O -Investigating refraction Learning Outcome-** Be able to translate the collected data from the online experiment to a graph and identify the relation between the variables.	**Zoom**	Teacher uses interactive power point presentation to demonstrate the experiment and data shared in excel sheets for students to process it.
11th May Monday **14th** May Thursday	**12 A** **12 B**	2 4	**L.O -** Use the Snell's law equation relating to refraction **Learning Outcome-** Be able to process data to measure the refractive index of a solid material using the Snell's law equation.	**Zoom**	Teacher uses interactive power point presentation and breakout sessions for students to collaborate and analyze the data collected.

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Lesson Objective: Understand what is meant by plane polarisation.
Explain how a polarisation filter works and can be used in various applications.

Resources: Student text book, worksheet file, interactive power point from Board works, video and online animations

Date	**Lesson**	**Lesson objectives & Learning outcome**	**Mode of Teaching**	
10th May Sunday 12th May Tuesday 10th May Sunday 14th May Thursday	6 **12B** 4 **12A** 7 **12B** 1 **12A**	**LO** -Explain what is meant by *plane polarised light* **Learning outcome:** Be able to • Understand that polarisation is a phenomenon associated with transverse waves. • Differentiate between polarised and unpolarised light. **LO** – Investigate polarisation of light and microwaves **Learning outcome:** Be able to • Plan experiments to demonstrate polarisation using a metal grill for microwave and polarising filter for light.	**Zoom** **Zoom**	Teacher uses powerpoint presentation to explain the phenomenon of polarisation – uses simple rope and cardboard with a slit experiment Teacher uses interactive power point presentation and videos to demonstrate the experiment to explain the polarisation of microwaves and light
13th May Wednesday 14th May Thursday	3 **12B** 2 **12A**	**Learning outcome:** Realise the importance of polarisation in various applications. **Group work:** Research on the various applications of polarization like polaroid glasses, Optical Stress analysis, polarization in 3D films and photography	**Asynchronous Learning**	Students should write a report or prepare a PowerPoint presentation based on the topic given.