YEAR 12A/ B – PHYSICS

WEEK 9 (17th May to 21st May) 3 lessons for both batches

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

Topic:_Refraction:

Lesson Objective: Relate the refractive indices of the mediums to angles of incidence and refraction and the speed of travel.

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

Date	Class	Lesson	Lesson objectives & Success criteria	Mode of teaching	
17th May Sunday 19th May	12 A	8	L.O –Understand the relation between refractive index of the medium, and the path of light rays	Zoom	Teacher uses interactive power point presentation ,breakout session in zoom app and
Tuesday	12 B	6	Success criteria- Recap Snell's law Solve questions to understand that at the interface between medium 1 and medium 2 $n1sin \theta 1 = n2 sin \theta 2$ where refractive index is n=c/v		mentimeter quiz to check their understanding
18th May Monday	12 A	1	L.O – Describe Total Internal reflection of light Success criteria- Predict whether TIR will occur	Zoom	Teacher uses interactive power point presentation and breakout
21st May Thursday	12 B	3	at an interface Identify what is critical angle Calculate <i>critical angle</i> using $\sin C = 1/n$		sessions for students to collaborate and attain the objectives.
18th May Monday	12 A	2	L.O-Dispersion Success criteria- -Devise a simple experiment to show dispersion of white light.	Async hronous	Students to do a simple experiment on dispersion at home and record the effect.
21 st May Thursday	12 B	4	Realise how rainbow is formed Sketch the path of light ray through a raindrop.		Research work on rainbows assigned through GC

YEAR 12 A/ B – PHYSICS

WEEK 9 (17th May to 21st May) - 3 lessons for both batches

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

Topic: Applications of Polarisation

Lesson Objective: Dicuss the various applications of polarisation.

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

Date	Class	Lesson	Lesson objectives & Success	Mode of	
			criteria	teaching	
17th May Sunday 19th May	12 B	6	 L.O –Explain polarisation by reflection and refraction Success criteria- Explain how Polaroid 	Zoom	Students consolidate and present the research work given last week on the applications of polarisation (group work)
Tuesday	12 A	4	sunglasses reduce glare. Students will be able to appreciate why ski goggles often have polaroid filters with vertical orientation		
17th May Sunday	12 B	7	L.O – Investigate and explain how to measure the rotation of the plane of polarization.	Zoom	Teacher uses interactive power point presentation and breakout
21st May Thursday	12 A	1	Success criteria- Explore the role of polarimetry in finding the sugar concentration.		sessions for students to collaborate and attain the objectives.
20th May Wednesday	12 B	3	L.O- Investigate structural stresses- stress analysis using crossed polaroids Success criteria-	GC	Students do research work on how polarisation can be used with models to
21st May Thursday	12 A	2	-Explain the benefits of being able to use polarisation to analyse stress concentration in engineering model		investigate stresses in structures. Worksheet assigned through GC