

YEAR 9 (A- F) – PHYSICS

WEEK 8 (10th May to 14th May)

Work Sent to the students through: Group email/ Google classroom

Topic: Waves crossing boundaries

Lesson Objective: Analyse how the change in speed of a wave affect its direction.

Resources: Text book, Worksheets, GCSE science online experiments, power point.

| Date | Lesson | Lesson objectives & Learning outcome | Mode of Teaching | |
|--|--------|--|------------------|---|
| 10 th May Sunday (girls) | 4 | L.O- Explain Total Internal Reflection(TIR) with the aid of ray diagrams Learning outcomes: Be able to define Total Internal Reflection. | Zoom | Teacher uses interactive power points using board works to explain the concepts. |
| 12 th May Tuesday – (boys) | 1 | Sketch ray diagrams to identify the critical angle and consequent TIR Identify the conditions necessary for TIR to occur. | | |
| 12 th May Tuesday – (boys) | 2 | L.O- Investigating TIR Learning outcomes: Plan an experiment to investigate TIR. | Zoom | Teacher uses Breakout sessions for students to collaborate and plan the expt. Students use PheT simulations to conduct experiment and collect data. |
| 13 th May Wednesday – (girls) | 3 | Choose the correct controls and use online simulation to carry out experiment and collect data. | | |
| 13 th May Wednesday – (girls) | 4 | L.O- Investigating TIR Learning outcomes: | GC | Worksheet with instruction will be given in the Google class room to guide students to analyse the data. |
| 14 th May Thursday (boys) | 1 | Analyse the collected data from the simulation and arrive at valid conclusions. | | |

