

YEAR 12 A/ B –PHYSICS

WEEK 11 (8th November to 12th November) (3 lessons)

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

Topic: Electrical quantities

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

Date	Class	Lesson	Lesson objectives & Learning outcomes	Mode of teaching	
8 th Nov Sunday	12 A	8	Learning objectives: Recap non-ohmic conductors and semi conductors and solve worksheet questions	GC	Worksheet file will be uploaded in GC
10 th Nov Tuesday		6	Learning Outcomes : Recap how to interpret VI graphs for semiconductors. Complete Worksheet file questions		
9 th Nov Monday	12 A	1	Learning objectives: Explain conduction in semi conductors	zoom	Teacher uses power point presentation and breakout sessions for students to collaborate and attain the objectives
Nov 12 th Thursday	12B	3	Learning Outcomes : Discuss briefly how electrons gain energy to become delocalized in a semi conductor Short discussion on how diodes work Analyse the I-V characteristics of diode in positive and negative quadrants. Explain electrical insulation		
9 th Nov Monday	12 A	2	Learning objectives: Recap all the objectives covered in Topic 3.1 Electrical quantities	zoom	Teacher uses breakout sessions and group discussions for students to collaborate and attain the objectives
12 th Nov Thursday	12B	4	Learning Outcomes: Discussion of the exam style questions from the worksheet given. Discussion of questions given in the reading assignment on superconductivity		

YEAR 12 A/ B – PHYSICS

WEEK 11 - (8th Nov to 12th Nov) - 3 lessons for both batches

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

Topic: 2.18 Projectiles

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

Date & Class	Lesson	Lesson objectives & Learning outcomes	Mode of teaching	
8 th Nov Sunday - 12 B	6	<i>Carried forward from last week</i> L.O – Describe and explain motion due to a uniform velocity in one direction and a uniform acceleration in a perpendicular direction	Zoom	Teacher uses ppt and board works that contains interactive questions and online simulation to discuss the independence of vertical and horizontal motion of a projectile moving freely under gravity. Video clips of experiments such as ‘monkey and hunter’ shown
10 th Nov Tuesday - 12 A	4	Learning outcomes- <ul style="list-style-type: none"> • Recognise the independent effect of motion in horizontal and vertical directions. • Understand how the vertical and horizontal components are varying as a body is projected horizontally • Apply the kinematics equations to objects projected horizontally. 		
8 th Nov Sunday - 12 B	7	L.O - Understand how to make use of the kinematics equations to derive the height, range and velocity of a body projected horizontally and moving freely under gravity	Zoom	Students will need to consider the vertical and horizontal components of the velocity separately, with the horizontal component being taken as constant and the vertical component being subject to the acceleration of free fall. The overall trajectory of a projectile is in the shape of a parabola.
12 th Nov Thursday - 12 A	1	Learning outcomes- <ul style="list-style-type: none"> • Calculate the height and range by using equations of motion for horizontal projection. • Describe and explain the effect of external forces on each component. • Recognise the independent effect of motion in horizontal and vertical directions. 		
9 th Nov Wednesda y	3	L.O – Combine horizontal and vertical motion to calculate the movements of projectiles.		Teacher uses ppt and board works that contains interactive

<p>- 12 B</p> <p>12th Nov Thursday</p> <p>- 12 A</p>	<p>2</p>	<p>Learning outcomes-</p> <ul style="list-style-type: none"> • Identify vertical and horizontal components of initial velocity at an angle. • Describe and explain the effect of external forces on each component. • Apply kinematics equations to derive time of flight, horizontal range, maximum height and the magnitude and direction of final velocity in numerical problems. • Compare the mechanics of different sport activities and explore ways of enhancing the required effect in each case. 	<p>Zoom</p>	<p>questions and online simulation to explain motion of a projectile moving freely under gravity. Gives examples of different sports activities like basketball</p>
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HOMEWORK: Complete the textbook Qs: 1- 4, Page 35 and worksheet file questions