

YEAR 13 A/ B –PHYSICS

WEEK 3 (13th Sept to 17th Sept) 3 lessons for both batches

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

Topic: - Linear Momentum in 2 D

Learning objectives: Apply the principle of conservation of linear momentum to problems in two dimensions.

Date	Class	Lesson	Lesson objectives & Learning outcome	Mode of teaching	
14th Sept Monday	13 B	6	Learning objectives: - Apply the principle of conservation of linear momentum to problems in two dimensions.	Zoom	Teacher uses power point presentation and breakout sessions for students to collaborate and attain the objectives.
15th Sept Tuesday	13 A	4	Learning outcomes- Make calculations based on the conservation of linear momentum to determine energy changes in collisions Solve numerical questions from worksheet file.		
14th Sept Monday	13 B	7	Learning objectives: Identify the use of Pythagoras theorem and trigonometry in vector diagrams; to solve numerical problems.	zoom	Teacher uses power point presentation and breakout sessions for students to collaborate and attain the objectives.
17th Sept Thursday	13 A	1	Learning Outcomes : Use the given worksheet to solve numerical problems. Substitute numerical values into algebraic equations using appropriate units for physical quantities..		
16th Sept Wednesday	13 B	3	L.O : Test conducted to assess their knowledge on	zoom	Teacher uses Google forms to conduct test
17th Sept Thursday	13 A	2	Applying the principle of conservation OF momentum to problems in 1 & 2 D		

YEAR 13 A/ B –PHYSICS

WEEK 3 (13th Sept to 17th Sept) - 3 lessons for both batches

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

Topic: - Electric fields.

Resources: Student text book, interactive power point, Board works and online

Date	Lesson	Lesson objectives & Learning outcome	Mode of teaching	
14 th Sept Monday - 13 A	1	L.O – Understand the concept of an electric field as an example of a field of force and define electric field strength.	Zoom	<i>Carried forward from last week as test was given on Diffraction of light.</i> Teacher uses power point presentation to explain the concepts and guide students through the process.
15 th Sept Tuesday - 13 B	6	Use the expression electric field strength $E = F/Q$ Learning outcomes- <ul style="list-style-type: none"> • State that electric fields are created by electric charges. • Define electric field strength as force per unit positive charge ($E=F/q$). • Give the unit of E as N/C and express N/C in terms of base units 		
14 th Sept Monday - 13 A	2	L.O – Understand uniform and radial electric fields. Derive the expression $E = kq/r^2$ for the electric field due to a point charge.	Zoom	Teacher uses boardworks & power point presentation to explain the concepts and guide students to solve problems.
17 th Sept Thursday - 13 B	3	Learning outcomes- <ul style="list-style-type: none"> • Define uniform fields and radial fields. • Use the expression $E = V/d$ to calculate the field strength of the uniform field between charged parallel plates and $E = kq/r^2$ for the electric field strength due to a point charge in free space. • Discuss the fact that the field strength obeys inverse square law with distance and predict the graph. 		
15 th Sept Tuesday	5	L.O – Draw and interpret diagrams of electric fields.	Zoom	Teacher uses boardworks &

<p>- 13 A</p> <p>17th Sept Thursday</p> <p>- 13 B</p>	<p>4</p>	<p>Understand the need for an arrow on the field line to show the direction of the force on a positive charge.</p> <p>Learning outcomes-</p> <ul style="list-style-type: none"> • Know that electric field are represented by means of field lines • Predict and draw the shape of the electric field around a point charge and between two parallel plates. • Draw field lines for attracting and repelling charges, a point charge and a flat plate. 	<p>power point presentation to explain the concepts.</p> <p>Students draw the field line pattern between a point charge and a parallel plate. Ask them to suggest the field line pattern for a slightly curved plate.</p>
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