

YEAR 13A/ B –PHYSICS

WEEK 9 (25th Oct to 28nd October) 3 lessons for both batches

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

Topic: Thermodynamics

Date	Class	Lesson	Lesson objectives & Learning outcome	Mode of teaching	
26 th Oct Monday	13 B	6	Learning objectives: Discuss the properties of ideal gas Revisit the Gas laws Learning Outcomes : State Boyle's law, Pressure law and Volume law; select and apply $PV/T = \text{constant}$ Investigate relationship between P and T Investigate the relationship between P and V	Zoom	Teacher uses power point presentation and breakout sessions for students to collaborate and attain the objectives.
26 th Oct Monday	13 B	7	Learning objectives: State ideal gas equation. Learning Outcomes : Solve problems using the ideal gas equation expressed as $pV = nRT$, State that 6.02×10^{23} /mol is the Avogadro constant N_A Define Boltzmann constant as R/ N_A Use the expression $pV = NkT$ as the equation of state for an ideal gas.	zoom	Teacher uses power point presentation and breakout sessions for students to collaborate and attain the objectives.

27 th Oct Tuesday	13 A	4	Assessment- 2 Topics Unit 9.1-1- Heat and Temperature	zoom	Teacher gives the assessment in Google forms.
28 th Oct Wednesday	13 B	3	Unit 9.1-3- Heat transfer		

YEAR 13 A/ B –PHYSICS

WEEK 9 (25th Oct to 28th Oct) - 3 lessons for both batches

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

Topic: - 7.3 – Magnetic fields

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

Date	Lesson	Lesson objectives & Learning outcome	Mode of teaching	
26 th Oct Monday - 13 A	1	<i>Carry forward from last week</i> L.O – Understand about magnetic field patterns and lines of flux.	Zoom	Teacher remind students of gravitational fields and electric fields.
27 th Oct Tuesday - 13 B	6	Learning outcomes- <ul style="list-style-type: none"> • Define magnetic field • Explain the significance of the directions of magnetic field lines. • Draw the shape of magnetic field lines around a permanent magnet, attracting and repelling magnets. 		Discussion on drawing field lines with magnets and compass.
26 th Oct Monday - 13 A	2	L.O – Understand that a magnetic field is an example of a field of force produced either by current-carrying conductors or by	Zoom	Teacher uses boardworks & power point presentation to

		<p>permanent magnets</p> <p>Learning outcomes-</p> <ul style="list-style-type: none"> • Discuss experiment making an electromagnet and investigating the factors affecting its strength. • Draw field lines for current carrying straight conductors, loop of wire and solenoid. • Demonstrate with iron filings or plotting compasses the magnetic fields around current carrying conductors. (video) 		<p>explain the concepts and guide students to draw field lines for current carrying conductors.</p>
<p>27th Oct Tuesday - 13 A</p>	5	<p>L.O – Explore and use the terms magnetic flux density B, flux Φ and flux linkage $N\Phi$</p> <p>Learning outcomes-</p> <ul style="list-style-type: none"> • Define magnetic flux and its unit weber. • Define magnetic flux density • Use the equation for magnetic flux • $\phi = BA \cos \theta$ • Define Flux linkage of a coil = $N \phi$ 	Zoom	<p>Teacher uses boardworks & power point presentation to explain the concepts of magnetic flux density.</p>