YEAR 9 (A- F) – PHYSICS

WEEK 33 (2nd May to 6th May)

Work Sent to the students through Google classroom

Topic: Revision for final Exam

Resources: Student text book, Worksheet, GCSE science free lesson video, power point.

Date	Lesson	Lesson objectives & Learning outcomes	Mode of	
			Teaching	
2 nd May Sunday (Girls) 2 nd May Sunday (Boys)	4	Learning objectives: Revise Conservation of Energy (Unit -3) Learning Outcomes: Recall the concepts - energy stores and transfers, efficiency, thermal conductivity, GPE and KE, energy resources. Answer different leveled exam style questions and do self evaluation.	Zoom	Teacher uses worksheet that contains productive questions.
4 th May Tuesday (Girls) 6 th May Thursday (Boys)	3 5	Learning objectives: Revise Waves (Unit – 4) Learning outcomes: Recall the concepts – describing waves, wave speeds, refraction, waves crossing boundaries, ears, ultrasound, infrasound. Answer different leveled exam style questions and do self evaluation.	Zoom	Teacher uses worksheet that contains productive questions.
4 th May Tuesday (Girls) 6 th May Thursday (Boys)	4	Learning Objective : Revise Waves (Unit – 5) Learning outcome: Recall the concepts – light and electromagnetic waves. Answer different leveled exam style questions and do self evaluation.	Zoom	Teacher uses worksheet that contains productive questions.

YEAR 10 A-F -Physics

WEEK 33 (2nd May to 6th May)

Topic: Revision Lesson Objective: SP3 Conservation of Energy SP4 Waves SP1and 2 Motion & Motion and Forces

Resources: Student text book, worksheet file, interactive power point from Board works and Online animations Worksheets and Zoom link will be posted in GC

DateDescentoutcomeTeaching2nd May1L.O: Revision - Conservation of energyImage: Conservation of energyImage: Conservation of energyImage: Conservation of energyImage: Conservation of energy2nd May1Learning outcome: Students revises the following topicsImage: Conservation of energyImage: Conserva	Date	Lesson	Lesson objectives & Learning	Mode of	
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 b) the following topics c) D-t and v-t graphs c) D-t and v-t graphs c) Newton's laws of motion c) Stopping distance, momentum and safety c) Acceleration 	(Boys)	-	the following topics		Teacher ensures that
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• Acceleration	(girls)	6	and safety		the topics mentioned
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6 th May 4	6 th Mov	1			
Thursday 4 Revision worksheet	U May Thursday	-	I. A · Salving workshoot		Revision worksheet
(Boys) will be uploaded in the	(Boys)				will be uploaded in the
Learning outcome: Students will solve GC GC. Students will	(DOys)		Learning outcome. Students will solve	GC	GC. Students will
6th May the revision worksheet posted in GC solve the worksheet	6 th May		the revision worksheet posted in GC	UC	solve the worksheet
Thursday 1 and turn in their	Thursday	1	the revision worksheet posted in OC		and turn in their
(girls) answers	(oirls)	1			answers

YEAR 11 A-F – Physics (GCSE)

WEEK 33 (2nd May to 6th May)

Work Sent to the students through Google classroom

Date	Lesson	Торіс	Mode of	
			Teach ing	
3 rd May Mon (Boys) 2 nd May. Sunday (Girls)	4	Units and Unit conversions Objectives – To know the conversion of metric units Learning outcome : Why do we change units To know the difference between metric and imperial units To know the conversion of metric units of: Length, Area, Volume (capacity) , Mass and Time Aply unit conversions in real life situations	Z	Teacher uses power point presentation that contains interactive questions.
4 th May. Tuesday – (boys) 3 rd May Monday – (girls)	1&2 1&2	Units and Unit conversions Objectives – To know the conversion of metric units Learning outcome : Solve unit conversion questions	Asy	Instruction and worksheet will be given in the Google class room
5 th May. Wednesda y - (boys) 5 th may. Wednesda y- (girls)	7	Units and Unit conversions Discussion of worksheet answers and reinforce this topic	Z	Teacher uses interactive questions on unit conversions
6 th May. Thursday – (boys) 6 th May. Thursday – (girls)	7	Research on Masonry heater Learning objective : How Masonry heater save energy Learning outcome : What masonry heater and what is it made up of How does it transfer heat How does it save our electricity bill.	Asy	Instruction and worksheet will be given in the Google class room

YEAR 11 G/H – Physics (IGCSE)

WEEK 33 (2nd May to 6th May)

Topic: Metric units

Lesson Objective: Research on Masonry heater. Conversion of metric units of length, area, volume (capacity) , mass, time

Resources: Worksheets, interactive power point and online simulations.

Date	Lesson	Learning objective and Success Criteria	Mode of teaching	
3 rd May Monday (boys &girls)	8	 LO- Research on Masonry heater. Learning Outcome- Research on Masonry heater and collect the knowledge about the concept. 	Asynchrono us lesson	Instruction will be given in the Google class room.
4 th May Tuesday (boys & girls)	7	 LO- Conversion of metric units of: Length,Area,Volume (capacity) Mass,Time Learning outcome Differentiate metric and imperial system of units. Conversion of metric units of length, area, volume (capacity) , mass, time 	Zoom/GM	Teacher uses power point presentation to explain the conversion of metric units of length, area, volume, mass and time.
4 th May Tuesday (boys & girls)	8	 LO- Solve worksheet questions based on the topic Metric unit. Learning outcome Solve the worksheet questions. 	Asynchrono us lesson	Instruction will be given to solve worksheet questions.
5 th May Wednesday (boys & girls)	8	 LO- Discuss worksheet questions based on the topic Metric unit. Learning outcome Apply the concept of metric unit 	Zoom/GM	Teacher uses power point presentation to discuss the worksheet questions.
6 th May Thursday (boys & girls)	2	 LO- Solve the questions based on Masonry heater. Learning outcome Solve the questions given in the worksheet 	Asynchrono us lesson	Instruction will be given in the Google class room.

YEAR 12A/ B -PHYSICS

WEEK 33 (2nd May to 6th May) - (3 lessons)

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

Topic: Optics & Revision

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

Date	Class	Lesson	Lesson objectives & Learning outcomes	Mode of teaching	
May 2 nd Sunday May 4 th Tuesday	12 A 12 B	8	Detectives:Learning objectives:Recognize where lenses are used in real life.Learning Outcomes :Complete the lens diagram to show the image formation in a telescope Identify how the lenses are used in BinocularsIdentify from guided examples that simple astronomical telescope has a lens separation of $f_e + f_o$ and a magnifying power of f_o/f_e	Zoom	Teacher uses power point presentation and breakout sessions for students to collaborate and attain the objectives
May 3 rd Monday May 6 th Thursday	12 A 12B	1 3	Learning objectives: Revise the concepts on Refraction, Snells law Lens equation Magnification & Power of a lens Learning Outcomes : Complete the worksheet file to reinforce the concepts.	Zoom	Teacher uses power point presentation and breakout sessions for students to collaborate and attain the objectives
May 3 rd Monday May 6 th Thursday	12 A 12B	2	Learning objectives:Recap Material properties –solid andliquidLearning Outcomes:Distinguish between Stiffness constantand young's modulus from graphsAnalyze stress-strain &F-e graphsUse stokes law and drag equation tosolve problemsDo questions on viscosity	Zoom	. Teacher uses power point presentation and breakout sessions for students to collaborate and attain the objectives

YEAR 12 A/ B – PHYSICS

WEEK 33 (2nd May to 6th May) - 3 lessons for both batches

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

Topic: 5.22 Stationary waves

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

Date & Class	Lesso n	Lesson objectives & Learning outcomes	Mode of teaching	
2 nd May Sunday - 12 B 4 th May Tuesday - 12 A	6	 L.Objective – Describe the formation of stationary waves in open and closed end pipes. Learning outcomes- Realise that stationary waves can be produced in open and closed pipes. Identify the different modes of vibration in open and closed end pipes. Derive equations for the frequency of wave in open and closed pipes Realise that only odd harmonics are possible in closed pipe and all harmonics are possible for open pipes. 	Zoom	Teacher use simulations and video to explain the the formation of stationary waves in open and closed end pipes.
2 nd May Sunday - 12 B 6 th May Thursday - 12 A	7	 L.Objective - Determine the wavelength of sound using stationary waves Learning outcome: Discuss the experimental setup required for the formation of stationary waves using sound. Discuss the use of resonance tube or Kundt's tube to form stationary waves using sound. Explain how measurements could be taken and used later to find the wavelength and extended to determine the speed of sound in air. <u>https://www.youtube.com/watch?v=qUiB_zd9 M0k</u> 	Zoom	Teacher uses power point presentation and simulations to explain the expt using sound and helps students to attain the objectives.
5 th May Wednesday - 12 B 6 th May Thursday - 12 A	3	Learning Objective : Complete the worksheet posted in GC Learning outcome: Students will be able to reinforce the concepts learned in the previous lesson by completing the worksheet.	Zoom	Instruction will be given to complete the worksheet.

HOMEWORK: Complete the exam style questions from worksheet.

YEAR 13 A/ B -PHYSICS

WEEK 33 $(2^{nd}$ May to 6^{th} May) - (3 lessons)

Topic: Energy produced during respiration

Date	Class	Lesson	Lesson objectives &	Mode of	
			Learning outcome	teaching	
_			Learning objectives:		Teacher shares
May 3 rd Monday	13 B	6	Understand how the energy produced during respiration of microbes can be used to	Asvnchro	the reading material in GC
May 4 th	13 A	4	generate electricity	-nous	
Tuesday			Learning Outcomes :		
			Students to read the 'Electricity from waste' case study.		
			Identify the important points and make a short note on it.		
			Learning objectives:		
May 3 rd Monday May 6 th	13 B	7	Understand how the energy produced during respiration of microbes can be used to generate electricity (contd)	Asynchro -nous	Worksheet with the questions will be assigned in GC
Thursday	13 A	1	Learning Outcomes :		
			Use the case study to answer the questions on		
			How can electrodes be used to generate electrical power?		
Mon 5 th	12 D	2	Learning objectives:		Taaahar giyaa
Wednesday	13 B	5	Understand how the energy produced during respiration of microbes can be used to generate electricity (contd)	Asynchro -nous	the Practical procedure in GC.
May 6 th	12.4	2	Learning Outcomes :		
Thursday	13 A	2	using the information given on the practical worksheet be able to realise what is a microbial fuel cells (MFCs)		
			Skim through the practical procedure and plan how to make their fuel cell.		

YEAR 13 A/ B – PHYSICS

WEEK 33 (2nd May to 6th May) - - 3 lessons for both batches

Date	Lesson	Lesson objectives & Learning outcome	Mode of teaching	
3 rd May Monday	1,2	Learning Objective: Explore the different astronomical unit of distance and methods to measure the distances to the stars.	Asynchro -nous	Teacher shares the link in GC
6 th May Thursday - 13 B	3,4	 Learning Outcome: Research on the trigonometric parallax method to measure distances of nearby stars. Explain why trigonometric parallax method cannot be used to measure distances of distant stars. 		
4 th May Tuesday - 13 A	5	 Learning Objective: Understand how astronomical distances can be determined using trigonometric parallax. Learning outcomes- Reinforce their learning to solve the questions 	Asynchro -nous	Worksheet with the exam style questions will be assigned in GC
4 th May Tuesday - 13 B	6	given in the worksheet		

Topic: - 12.13 Distances to the stars