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	
2nd May Sunday **(Girls)** 2nd May Sunday **(Boys)**	4 8	**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.
4th May Tuesday **(Girls)** 6th 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.
4th May Tuesday **(Girls)** 6th May Thursday **(Boys)**	4 6	**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

Date	Lesson	Lesson objectives & Learning outcome	Mode of Teaching	
2nd May Sunday (Boys) **2nd May** Sunday (girls)	1 2	**L.O:** Revision - Conservation of energy **Learning outcome:** Students revises the following topics • Energy stores and transfers • Efficiency • Modes of transfer of heat • Energy resources	**Zoom/ GM**	Teacher assists the students in solving the worksheet and reinforcing the concepts
4th May Tuesday (Boys) **5th May** Wednesday (girls	5 5	**L O**: Revision - Waves **Learning outcome:** Students revises the following topics • Describing waves and wave speed • Refraction and lenses • Ultrasound • TIR	**Zoom/ GM**	Teacher assists the students in solving the worksheet and reinforcing the concepts
4th May Tuesday (Boys) **5th May** Wednesday (girls)	6 6	**L.O: Revision -** Forces and motion **Learning outcome:** Students revises the following topics • D-t and v-t graphs • Newton's laws of motion • Stopping distance, momentum and safety • Acceleration	**Zoom/ GM**	Students recap and revise the topics. Teacher ensures that the all the students are capable of answering the questions related to the topics mentioned.
6th May Thursday (Boys) **6th May** Thursday (girls)	4 1	**L.O : Solving worksheet** **Learning outcome: Students** will solve the revision worksheet posted in GC	**GC**	Revision worksheet will be uploaded in the GC. Students will solve the worksheet and turn in their answers

YEAR 11 A-F –Physics (GCSE)

WEEK 33 (2nd May to 6th May)

Work Sent to the students through Google classroom

Date	Lesson	Topic	Mode of Teaching	
3rd May Mon **(Boys)** 2nd May. Sunday **(Girls)**	4 3	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.
4th May. Tuesday – **(boys)** 3rd 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
5th May. Wednesday – **(boys)** 5th may. Wednesday– **(girls)**	7 1	Units and Unit conversions Discussion of worksheet answers and reinforce this topic	**Z**	Teacher uses interactive questions on unit conversions
6th May. Thursday – **(boys)** 6th May. Thursday – **(girls)**	7 3	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	
3rd 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.
4th 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.
4th 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.
5th 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.
6th 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 2nd Sunday May 4th Tuesday	12 A 12 B	8 6	**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 Binoculars Identify 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 3rd Monday May 6th 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 3rd Monday May 6th Thursday	12 A 12B	2 4	**Learning objectives:** Recap Material properties –solid and liquid **Learning Outcomes:** Distinguish between Stiffness constant and young's modulus from graphs Analyze stress-strain &F-e graphs Use stokes law and drag equation to solve problems Do 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	Lesson	Lesson objectives & Learning outcomes	Mode of teaching	
2nd May Sunday **- 12 B** 4th May Tuesday **- 12 A**	6 4	**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.
2nd May Sunday **- 12 B** 6th May Thursday **- 12 A**	7 1	**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. • https://www.youtube.com/watch?v=qUiB_zd9M0k	**Zoom**	Teacher uses power point presentation and simulations to explain the expt using sound and helps students to attain the objectives.
5th May Wednesday **- 12 B** 6th May Thursday **- 12 A**	3 2	**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 (2nd May to 6th May) - (3 lessons)

Topic: Energy produced during respiration

Date	Class	Lesson	Lesson objectives & Learning outcome	Mode of teaching	
May 3rd Monday May 4th Tuesday	**13 B** **13 A**	6 4	**Learning objectives**: Understand how the energy produced during respiration of microbes can be used to generate electricity **Learning Outcomes** : Students to read the 'Electricity from waste' case study. Identify the important points and make a short note on it.	**Asynchro -nous**	Teacher shares the reading material in GC
May 3rd Monday May 6th Thursday	**13 B** **13 A**	**7** **1**	**Learning objectives**: Understand how the energy produced during respiration of microbes can be used to generate electricity (contd) **Learning Outcomes** : Use the case study to answer the questions on How can electrodes be used to generate electrical power?	**Asynchro -nous**	Worksheet with the questions will be assigned in GC
May 5th Wednesday **May 6th Thursday**	**13 B** **13 A**	3 2	**Learning objectives**: Understand how the energy produced during respiration of microbes can be used to generate electricity (contd) **Learning Outcomes** : 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.	**Asynchro -nous**	Teacher gives the Practical procedure in GC.

YEAR 13 A/ B –PHYSICS

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

Topic: - 12.13 Distances to the stars

Date	Lesson	Lesson objectives & Learning outcome	Mode of teaching	
3rd May Monday **- 13 A** 6th May Thursday **- 13 B**	1,2 3,4	**Learning Objective:** Explore the different astronomical unit of distance and methods to measure the distances to the stars. **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.	**Asynchro -nous**	Teacher shares the link in GC
4thMay Tuesday **- 13 A** 4th May Tuesday **- 13 B**	5 6	**Learning Objective:** Understand how astronomical distances can be determined using trigonometric parallax. **Learning outcomes-** • Reinforce their learning to solve the questions given in the worksheet	**Asynchro -nous**	Worksheet with the exam style questions will be assigned in GC