

Delhi Public School Ghaziabad

Class XII

PHYSICS

Lesson plan

based on DOL

UNIT 5 ELECTRO MAGNETIC WAVES

Unit	UNIT 5 CH 8- ELECTRO MAGNETIC WAVES
Class Transaction	Total: 04 periods
Pre-requisite for the course	This lesson requires: • Basic knowledge of electric and magnetic field
Assessment of qualifying knowledge	• Written test • Lab activity
Objective	To provide students with knowledge of Enhance ability to accurately recognize and use appropriate terminology related to acceleration of charge and displacement current
Learning Outcomes	KNOWLEDGE- Students will know and understand <i>Modes Critical Thinking</i> <i>Creative</i> SKILLS- Students would be able to Understand and differentiate between displacement and conduction current
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- Brain Storming-The class would start with a discussion on what the students have already learnt in the previous classes and hence what is it that they would learn now. They would also be told the significance of the topic that they would be studying. Introduction of the topic- ppt and Digital Content would be shared Guided practice followed by Independent Practice- NCERT questions to be discussed in the classroom. Techniques to be used: Student - teacher interaction, collaborative learning, independent research, differentiated teaching, peer learning Competencies: collaborative learning, critical thinking and problem solving,
Resources	NCERT text book, Reference Book, CBSE Exemplar, DPSG Spiral www.learncbse.in/cbse-notes/ https://mycbseguide.com www.examfear.com
Self- Study, Home Work, Assignments	Independent Practice: Students would do the given questions in their spirals. It is also advised that the students come to the class with proper background knowledge of the topic under discussion. They can refer to the resources stated above.
Assessments	UNIT TESTS , MID TERM EXAMINATION, HALF YEARLY EXAMINATION, PRE BOARD EXAMINATION
Addressing	Due to various social backgrounds and multiple intelligences, the

Classroom Diversity	classroom might be a diverse arena. The following techniques can be used for various groups: <i>For gifted students:</i> Encouragement for referring other resources <i>For weak students:</i> Peer education Provide grade-up classes <i>For differently abled students:</i> Call parents at regular intervals Provide PCC classes Encourage and motivate them at every level.
Marks	Unit – 03marks

CLASS XII LESSON PLAN
Unit 5- ELECTRO MAGNETIC WAVES
(Based on DOL)

Anticipatory Set: Facilitator introduces the topic **ELECTROSTATICS**

Objective:

- Given questions based on the topic. Learners will be able to revise the basic principle of geography.
- To make students able to solve questions based on the topics to be discussed
- They will be able to track the growth of subject.

Techniques to be used:

- Peer Assessment
- Quiz

Materials required and Teaching Aids: blackboard, chalk, duster, Text book

Strategy

Student – teacher interaction, collaborative learning, independent practice

Day 1

- Basic idea of displacement current
- Inconsistency of Ampere circuital's law

Guided practice:

- Students will solve selected questions from NCERT book of exercise in their note book in the class with the help of their teacher
 Students will be asked about displacement current (Problem solving)

SUMMARIZE AND CHECK FOR UNDERSTANDING

- Oral questioning based on days teaching
- Discussion on the topic

Communication:

Independent practice:

Students will be asked to revise the work done in class.

Students will be asked to do question in assignment copy from the given assignment.

Critical thinking:

Help students develop reasoned problem solving and decision making skills

Closure of the lesson

Summarizing the lesson by mind mapping

Day 2

- Basic idea of displacement current
- Inconsistency of Ampere circuital's law

Guided practice:

- Students will solve selected questions from NCERT book of exercise in their note book in the class with the help of their teacher

Students will be asked about displacement current (Problem solving)

SUMMARIZE AND CHECK FOR UNDERSTANDING

- Oral questioning based on days teaching
- Discussion on the topic

Communication:

Independent practice:

Students will be asked to revise the work done in class.

Students will be asked to do question in assignment copy from the given assignment.

Critical thinking:

Help students develop reasoned problem solving and decision making skills

Closure of the lesson

Summarizing the lesson by mind mapping

Day 3

- Characteristics of EMW
- Electromagnetic spectrum

Guided practice:

- Students will solve selected questions from NCERT book of exercise in their note book in the class with the help of their teacher

Students will be asked applications of emw(Problem solving)

SUMMARIZE AND CHECK FOR UNDERSTANDING

- Oral questioning based on days teaching
- Discussion on the topic

Communication:

Independent practice:

Students will be asked to revise the work done in class.

Students will be asked to do question in assignment copy from the given assignment.

Critical thinking:

Help students develop reasoned problem solving and decision making skills

Closure of the lesson

Summarizing the lesson by mind mapping

Day 4

- Characteristics of EMW
- Electromagnetic spectrum

Guided practice:

- Students will solve selected questions from NCERT book of exercise in their note book in the class with the help of their teacher
Students will be asked applications of emw(Problem solving)

SUMMARIZE AND CHECK FOR UNDERSTANDING

- Oral questioning based on days teaching
- Discussion on the topic

Communication:**Independent practice:**

Students will be asked to revise the work done in class.

Students will be asked to do question in assignment copy from the given assignment.

Critical thinking:

Help students develop reasoned problem solving and decision making skills

Closure of the lesson

Summarizing the lesson by mind mapping