



Delhi Public School Srinagar

LESSON PLAN

Session 2015-2016

Class	: X
Subject	: Physics
For the Month(s) of	: September
Theme	: <i>Image Formation by Spherical Mirrors and Ray diagrams.</i>
Periods	: <i>Theory (12) and Practical (3)</i>

OBJECTIVES (CONCEPTS & SKILLS):

- *Basic concept of Rules for drawing Ray Diagrams*
- *Concept of concept of Ray Diagrams of Concave Mirror.*
- *Concept of concept of Ray Diagrams of Convex Mirror*
- *Concept of Magnification.*
- *Mirror Formula*
- *Textbook Numerical problems related to the topic.*

The teacher will keep the following skills in view:

- *Scientific Aptitude*
- *Thinking skills*
- *Reasoning Skills*
- *Attentiveness*

LEARNING OUTCOMES :

- Make it sure that the student learns the concepts given.
- *To know the Rules for drawing Ray Diagrams*
- *How to draw Ray Diagrams of Concave Mirror.*
- *How to draw Ray Diagrams of Convex Mirror.*
- *To know the uses of Mirrors*
- Magnification of spherical Mirror
- Mirror Formula and its application in Numericals

INSTRUCTIONAL TOOLS & REFERENCES : *In addition to general teaching tools like white board, marker, etc, the teacher will use plane mirror, concave mirror, convex mirror, screen, optical bench, Ray diagram Charts.*

The References used will be : Conceptual Physics by Paul Hewit & Science and Technology Text Book for class X.

PEDAGOGY :

- i. *Activating Prior Knowledge by Random Questioning*
- ii. *Introducing the topic to be taught after getting the expected response from the students.*
- iii. *Developing hypothesis by (a) Brainstorming, (b) Lecture , (c) Discussion and (d) In Text Questions*

ACTIVITY/ASSIGNMENT/PROJECTS : *The teacher will give Home Assignments and the areas of assessment will be:*

Content of Knowledge, Presentation, Correctness, Time Management, Drawing Skills and Thinking skills

ASSESSMENT:

- i. *Ask the students to give examples of optical devices that works on the reflection of light.*
- ii. *In Text Questions*
- iii. *Group Discussion*

FA₃ & SA₂ SYLLABUS :

FA Syllabus:

- *Ray Diagrams of Concave Mirror and Convex Mirror*
- *Magnification.*
- *Mirror Formula*
- *Numerical problems related to the topic.*

SA Syllabus: Same as FA