

LESSON PLAN 2023

NAME OF THE SCHOOL : HARIYANA VIDYA MANDIR
NAME OF THE TEACHER : MRS MAUSUMI SEN
SUBJECT : SCIENCE
UNIT : NATURAL PHENOMENA
TOPIC : LIGHT

STANDARD : VIII
STRENGTH : 56
PERIOD : 6
DURATION : 30mins
DATE : 11th - 19th December

CURRICULAR STATEMENT: To engage students in purposeful learning of the concept of “LIGHT”.

CONTENT ANALYSIS:

1. Reflection of Light
2. Refraction of Light
3. Dispersion of Light
4. Human Eye

CONCEPT:

- ❖ Laws of Reflection
- ❖ Regular and Diffused Reflection
- ❖ Images formed in plane mirror
- ❖ Power of Accommodation
- ❖ Persistence of Vision
- ❖ Defects of Eye – Its correction
- ❖ Technology for Visually Challenged
- ❖ Care of Eye

LEARNING OUTCOMES:

- ✓ Students will be able to explain Reflection, Refraction of Light.
- ✓ Students will be able to explain the images formed in the plane mirror.
- ✓ They will apply the knowledge of Multiple reflection in daily life, rainbow and spectrum.
- ✓ Students will be able to understand Human Eye – its care, defects and its correction and will be able to interpret Technology of Visually challenged.

PRE-REQUISITES: Students have the prior knowledge of different types of light present in the surroundings and how do they appear.

TEACHING LEARNING RESOURCES:

- Science Text Book : Class VIII (NCERT)
- Enhanced Science Now : Class VIII
- Smart Board modules
- Black board and chalk
- Activities with students

LEARNING ACTIVITY:

- 1) Posing a problem
 - Diagram
 - a. To draw the laws of reflection.
 - b. Applications of multiple reflections.
 - c. Refraction of light.
 - d. Parts of Human eye & accommodation of Human eye.

e. Defects of Eye and its correction.

- **Discussion point**
 - * What is Reflection?
 - * What is Refraction of light?
 - * Concept of Multiple reflection- meaning and its application in daily life.
 - * What is a Spectrum?
 - * Human Eye – Parts and its accommodation, defects and its correction.
 - **Consolidation**

The knowledge and concept of Light, its features and dimensions were given & explained.
- 2) **Development of concept** Through various interactions in an explanatory form students will learn the chapter of Light.


NUMERICAL EXERCISE: The relationship between the number of images and the angle between the mirrors is: $N = \frac{360}{a} - 1$, where N= number of images and $a = \text{angle between the two mirrors}$.

REVISION: Questions from the chapter were given and revised by students.

(Imp. Question to be discussed:


1. Find the number of images formed when two mirrors are kept at an angle of 45 degree
2. Write the laws of reflection.
3. Name and describe the optical devices which work on the principle of Multiple reflection.
4. What is Power of accommodation?)

FOLLOW UP ACTIVITY: Demonstration of some activities were conducted along with revision in class.

 **Signature of the TEACHER:**

 **Signature of HOD/Coordinator:**

Signature of Principal:

 **Signature of Vice Principal:**

