

**KENDRIYA VIDYALAYA, IIT CAMPUS, CHENNAI – 36**

**CLASS : X**

**SCIENCE**

**MONTH : NOVEMBER**

**TOPIC : LIGHT – REFLECTION AND REFRACTION**

**I. KEY CONCEPTS:**

- SPHERICAL MIRRORS – Image, representation of images using ray diagrams.
- SIGN CONVENTION FOR REFLECTION BY SPHERICAL MIRRORS
- REFRACTION OF LIGHT
- REFRACTIVE INDEX – Refraction by spherical lenses.
- IMAGE FORMATION BY LENSES - RAY DIAGRAMS
- LENS FORMULA AND MAGNIFICATION
- POWER OF A LENS
- Read these concepts from the reader and answer the following worksheet (which should be submitted to the respective science teacher on Monday – compulsory)

**II. WORKSHEET**

- Draw ray diagrams of concave and convex mirror in your classwork note ( p.no.165)
- Write the Tabular column of concave mirror image ( p. no. 164) and convex mirror ( p. no. 167) in classwork notebook.
- Try the activity 10.7 and 10.8 (refer p. no. 172) in home and write the results in your classwork.

**III. JAWAHARLAL NEHRU SCIENCE EXHIBITION - PROJECT:**

- Prepare a project / working model under DISASTER MANAGEMENT - to rescue people from flood in Chennai. ( TOPIC – based on your interest)
- This projects is consider as a FA4 activity , so it is compulsory for each student to get that 20 marks.
- Monday (23 / 11 /15) project idea / write up should be handovered to the respective science teachers
- TOPICS: Health and nutrition, resource management, industry, agriculture and food safety, disaster management, mathematics for quality life.