

## **Self-study sheet – 01**

### **Topic - Reflection and refraction of waves.**

### **Lesson - Reflection of light.**

After this lesson you,

- \* Explain reflection of light.
  - \* Do some activities to identify incident ray, incident angle, reflecting ray, and reflecting angle.
  - \* State the laws of reflection of light.
  - \* Draw the ray diagram related to the pointed object that place infront of the plane mirror.
  - \* Draw the ray diagram related to the pointed objective that place infront of the inclined plane mirror.
  - \* Explain the regular and diffuse reflection by using parallel light rays.
  - \* Explain the use of regular reflection.
  - \* Enjoying by doing actives by plane mirrors.
1. At first read the page 58 and copy the table 14.1. Write down your conclusion.
  2. Define reflection of light.
  3. Do activity 14.1 by reading page 59 and 60.
  4. Draw the figure 14.1 and mark incident ray, incident angle, reflecting ray and reflecting angle.
  5. Study page 61 and write two reflecting laws.
  6. Explain regular and diffuse reflection by reading page 62 and 63. Write table 14.1 on your writing book.
  7. Write down the use of regular and diffuse reflection separately.
  8. Try to do the activity 14.4, 14.5, 14.6, 14.7 by reading page 64, 65, 66, 67.
  9. List out the uses of plane mirror by reading page 68.
  10. Try to create the simple instrument mention in page 69.

### **As extra activities,**

- \* Search information related to reflection of light by using internet.(<https://www.sciencelearn.org.nz/resources/48-reflection-of-light>)
- \* Collect the information by using newspapers and magazines.