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# Activity 1 How Light Travels

- $\blacktriangleright$   $\mathbf{Aim}:$  To show that light travels in straight lines
- ▶ Process skills: Observing, communicating, analysing
- ▶ Materials: White paper, torch, comb, mirror

#### **Procedure and Observations**

- 1. Place the piece of white paper on the table.
- Place the comb and the mirror on the white paper as shown in the diagram below.
- Turn off the lights in the classroom. Switch on the torch and shine it at the comb as shown.



Observe the path the light takes and what happens when it reaches the mirror. 5. Draw arrows on the diagram to show how the light is reflected.



6. What is the function of each part in the set-up?

Torch	Comb	Mirror

#### Conclusion

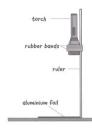
Light travels in \_\_\_\_\_ lines. When it is \_\_\_\_\_ by the mirror, it changes direction.

## Activity 2 Reflection of Light

- Aim: To show that different surfaces reflect light differently
  - > Process skills: Observing, inferring
  - Materials: Torch, ruler, rubber bands, aluminium foil, cardboard, white paper, mirror

#### **Procedure and Observations**

- 1. Tie the torch to the ruler with a few rubber bands.
- 2. Hold the ruler upright on the table as shown.
- 3. Place a smooth piece of aluminium foil on the table.
- Turn on the torch. Observe if the surface of the aluminium foil looks shiny or dull.





# Activity 3 Transparent, Translucent and Opaque Materials

- Aim: To find out which materials are transparent, translucent and opaque
- > Process skills: Observing, inferring
- Materials: Torch, ruler, rubber bands, clear plastic sheet, tissue, cardboard, mirror

#### **Procedure and Observations**

- 1. Tie the torch to the ruler with a few rubber bands.
- 2. Hold the ruler upright on the table.
- 3. Place the clear plastic sheet 10 cm away from the torch.
- Turn on the torch. Observe how much light passes through the clear plastic sheet.

