

ACTIVITY NO.– 11:HOW DOES LIGHT TRAVEL ?

Subject	Science
Class	VI
Chapter/Unit	Light,shadow and reflections
Topic	Reflection and rectilinear propagation of light
Time	40 mins
Nature of Activity	Individual

What will I learn?(Learning Outcome) :

To explore that light is a form of energy and is essential for life on the earth. When we shine a torch in a dark room at night ,we see that a beam of light , produced by the torch , travels in a straight line even after reflection.

What I have to do ?

To show that light travels in a straight line after reflection.

What do I require ?

A torch,comb,mirror ,a thermocol sheet

What do I need to know ?

As soon as we switch on a bulb or a tubelight , we are able to see everything around us.We need light to see everything around us.Light travels in a straight line

Teacher's Activity: Teacher will

- (1) explain the concept of reflection and rectilinear propagation of light
- (2) ask students to arrange the material and guide them to set it up to show reflection.

How will I proceed ?

Student's Activity :Students will

- (1) fix a comb on one side of a large thermocol sheet and fix a mirror on the other side.
- (2) spread a dark coloured sheet of paper between the mirror and the comb.
- (3) keep this in sunlight or send a beam of light from a torch through the comb.

What have I observed ?:

S.No	Experiment	Observation	Reason
1	Does the light travel in straight line when passed through a comb?		
2	Pattern formed on the cardboard		

What have I learnt ?

Light travels in a _____ (straight / curved) line and gets _____ from a mirror.

What am I curious to know ?

Let us discover that how light travels in a straight line ?

Let me evaluate myself

Q1.What is meant by rectilinear propagation of light?

Q2.Write the differences between image and a shadow.

Image	Shadow

Q3.Will you be able to see the reflection of light in a dark room ?

Q4.Why is shadow formed when an opaque object comes in path of light ?

Q5.On which principle is pinhole camera based ?How does it work ?
