

Activity Number- 11

Light

Class :VI

Subject: Science

Duration – 30 minutes

Nature of activity : Individual

Learning Outcome : Students will be able to

-**conclude** that light is a form of energy and is essential for life on the earth.

-**discover** that 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.

What I have to do ?To observe that light travels in a straight line.

What I require ?A candle , a match box and a rubber tube

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.

Teacher's Activity: Teacher will

- (1) light a candle and keep it on a teacher's table.
- (2) ask students to bring a rubber tube or make a rolled tube with paper.

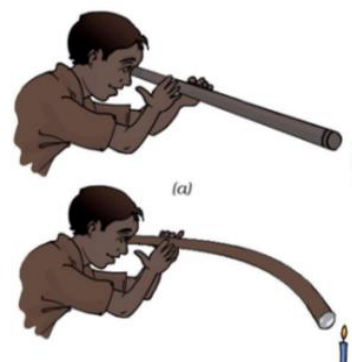
How will I proceed ?

Student's Activity : Students will

- (1) take the tube , stretch it straight and look through it with one eye(keeping the other eye closed).
- (2) now , bend the rubber tube in the middle and look through it at the candle flame again.

What have I observed ?:

S.No	Method	Is the flame of the candle visible.
1	When the rubber tube is straight.	
2	When the rubber tube is bent.	



What have I learnt ?Light travels in a _____ (straight / curved) line.

What I would be interested/curious about ? Does the working of a pinhole camera based on rectilinear propagation of light ?

Extended learning worksheet

1. Answer the following questions:

a) What is meant by rectilinear propagation of light

b) Why can't you see a table and chair when it is dark ?

c) A man is sitting on a chair in a dark room near one of the walls. A big mirror is hung on the wall facing the man. When a torch light is put on man from a distance, then we can see X of the man on the wall behind him. At the same time Y of the man can be observed in the mirror on the wall.

1. What is X?

2. What is Y ?

3. State one way in which X differs from Y .

d) Tick the correct option :

1. There is light on the earth on a dark, cloudy day. This is because clouds are :

a) opaque

b) transparent

c) Translucent

d) luminous

2. The plane mirror forms a/an

a) virtual image

b) real image

c) inverted image

d) magnified image