

H.O
23/11/21

Activity-2

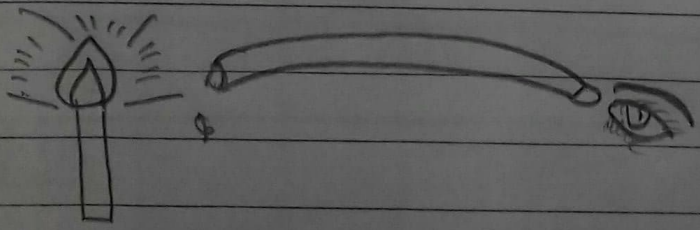
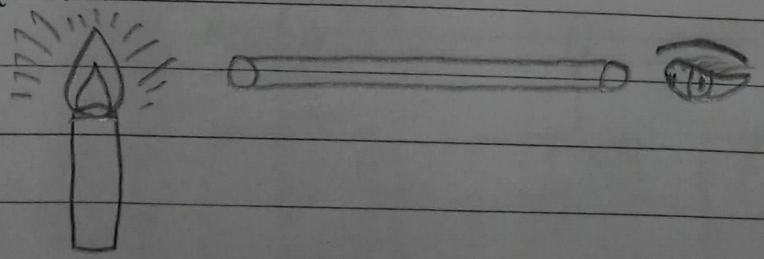
~~place~~

place a lighted candle on the table. Take a drinking straw, close one eye and look at the candle flame. The flame is clearly visible.

Now bend the straw in ^{the} middle and again look at the ~~straw~~ candle flame. The flame is not visible now.

The reason is that light travels in a straight line path. When the straw is bent, the light of the candle does not reach our eyes.

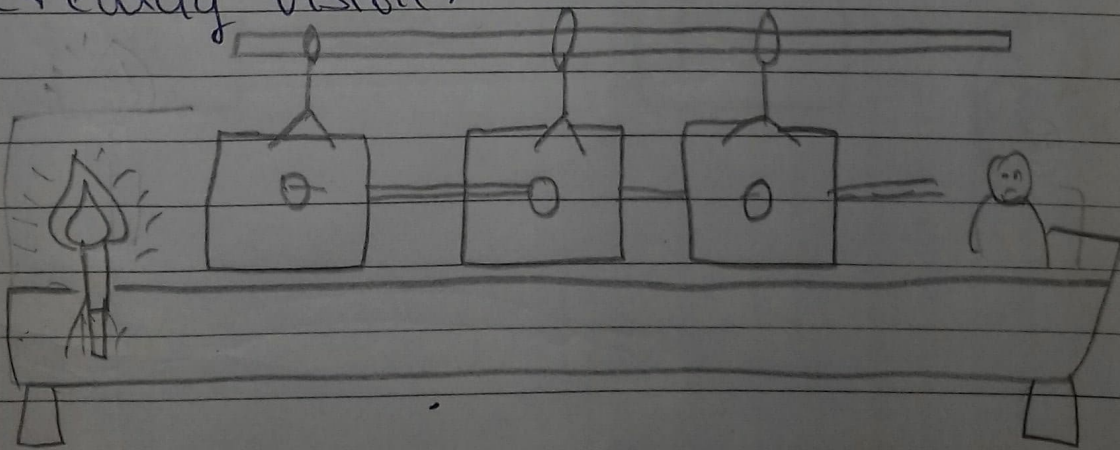
conclusion - Light travels in a straight line path.



To show rectilinear propagation of light.

Activity -3

Take three square cardboards A, B and C - each of side of 5cm. Take a pin ~~and~~ and make hole in each cardboard pieces by separate threads vertically from a support such that each hole is at the same height & pass a string through the holes and pull it taut. This makes the three holes to be in a straight line. Now take out the string, place a lighted candle near one of the cardboards (say A). Look at the candle ~~near~~ ~~but~~ ~~at~~ ~~the~~ ~~cardboards~~ & flame from the other cardboard (C). The candle flame is clearly visible.



Now slightly displace one of the cardboard so that the holes no longer remain in a straight line. Again look at the candle flame from the other side of the cardboard C. You do not see the candle flame. The reason is that light travels in a straight line and now the holes in the cardboards A, B and C are not in a straight line. Therefore the flame is not visible.

conclusion :- Light travels in a straight line path.

