THU
23.11.2021

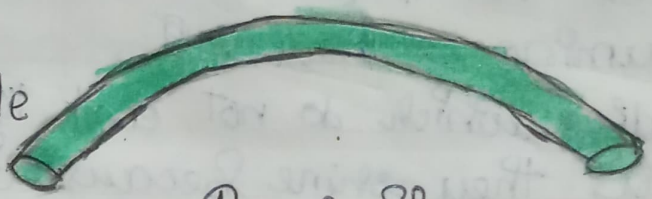
Activity 2

Place a lighted candle on a table. Take a drinking straw. Close one eye and look at the candle flame through the straw from the other eye. The flame is clearly visible.

Lighted candle

Straight Straw

Light is seen



Bend Straw

No light is seen

Lighted candle

Now bend the ~~straw~~ straw in the middle and again look at the candle flame through the straw. 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 flame does not reach our eye.

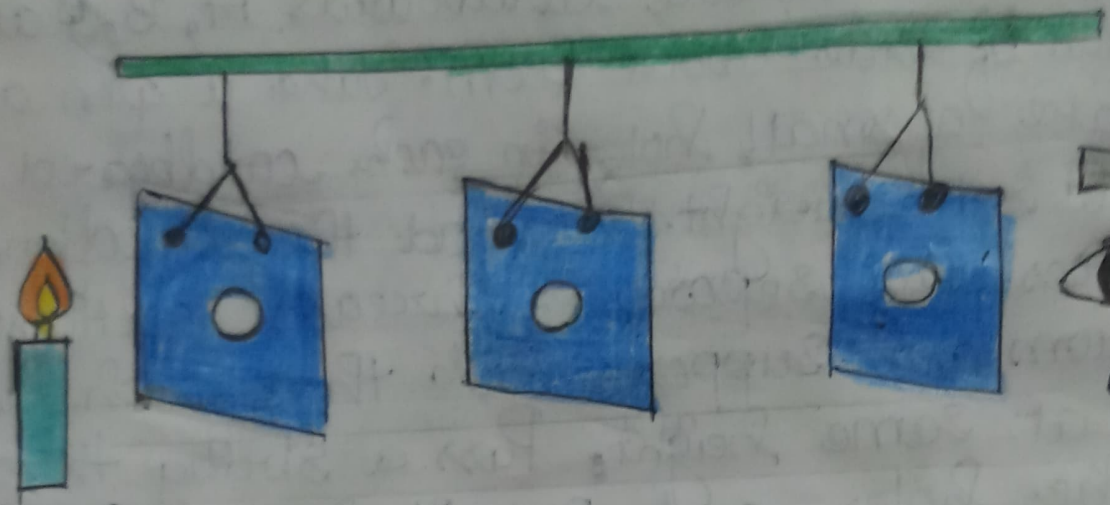
Conclusion: Light travels in a straight line path.

Activity 3

Take three square cardboards A, B and C each of side about 5 cm. Take a pin and make a small hole in each cardboard at the same height. Suspend the cardboard pieces by separate threads vertically from a support such that each hole is at 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.

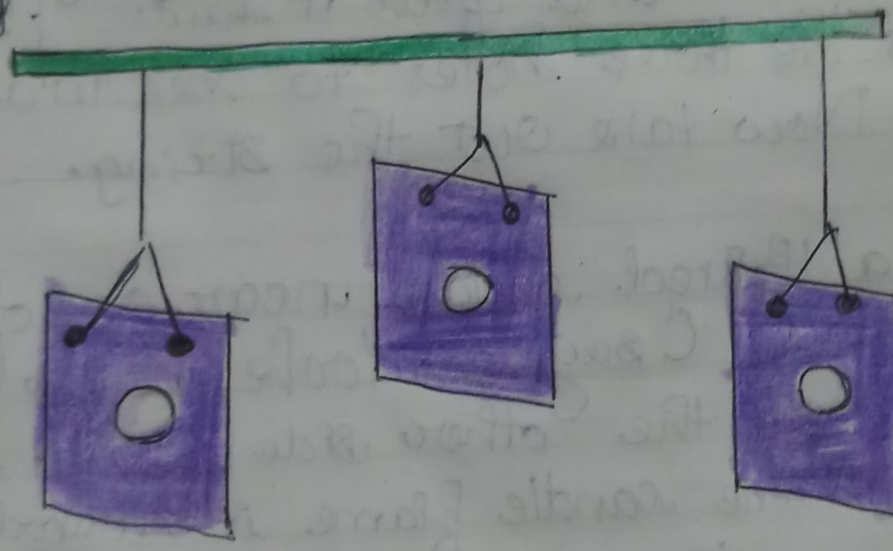
Place a lighted candle near one of the cardboards (say A). Look at the candle flame from the other side of the cardboard C. The candle flame is clearly visible.

Now slightly displace one of the cardboards (say B) 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. Therefore, the flame is not visible.



Light is seen

Lighted candle



Lighted candle

No light is seen

Conclusion :- Light travels in a straight line path.