

ACT - 2

Hw
12-21

Place a lighted candle on the table. Take a drinking straw. Close one eye and look at the candle flame is clearly visible. Now bend the straw in middle and again look at the candle flame through the straw. The flame is not visible now. ~~The~~ The reason is that light ~~travels~~ 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~~ straight line path.



Straight straw

Lighted candle

Light is seen.



Bent straw

Lighted candle

Light is not seen.

ACT - 3

Take three square card boards A, B, and C each of side about 5 cm. Take a pin and

make a small hole in each ~~about 5 cm~~ cardboard at the same height. Suspend the cardboard 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 cardboard (say A). Look at the candle from the other side of the cardboard (C). The 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 will 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.

