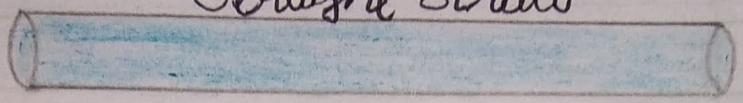
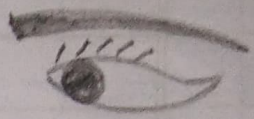
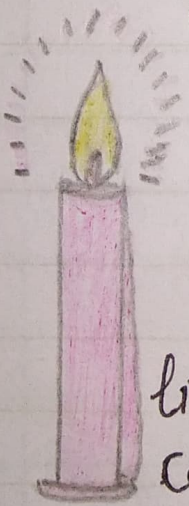
Lighted Candle

Straight Straw





light is seen



lighted candle

No light is seen

H.W
23.11.21

Date
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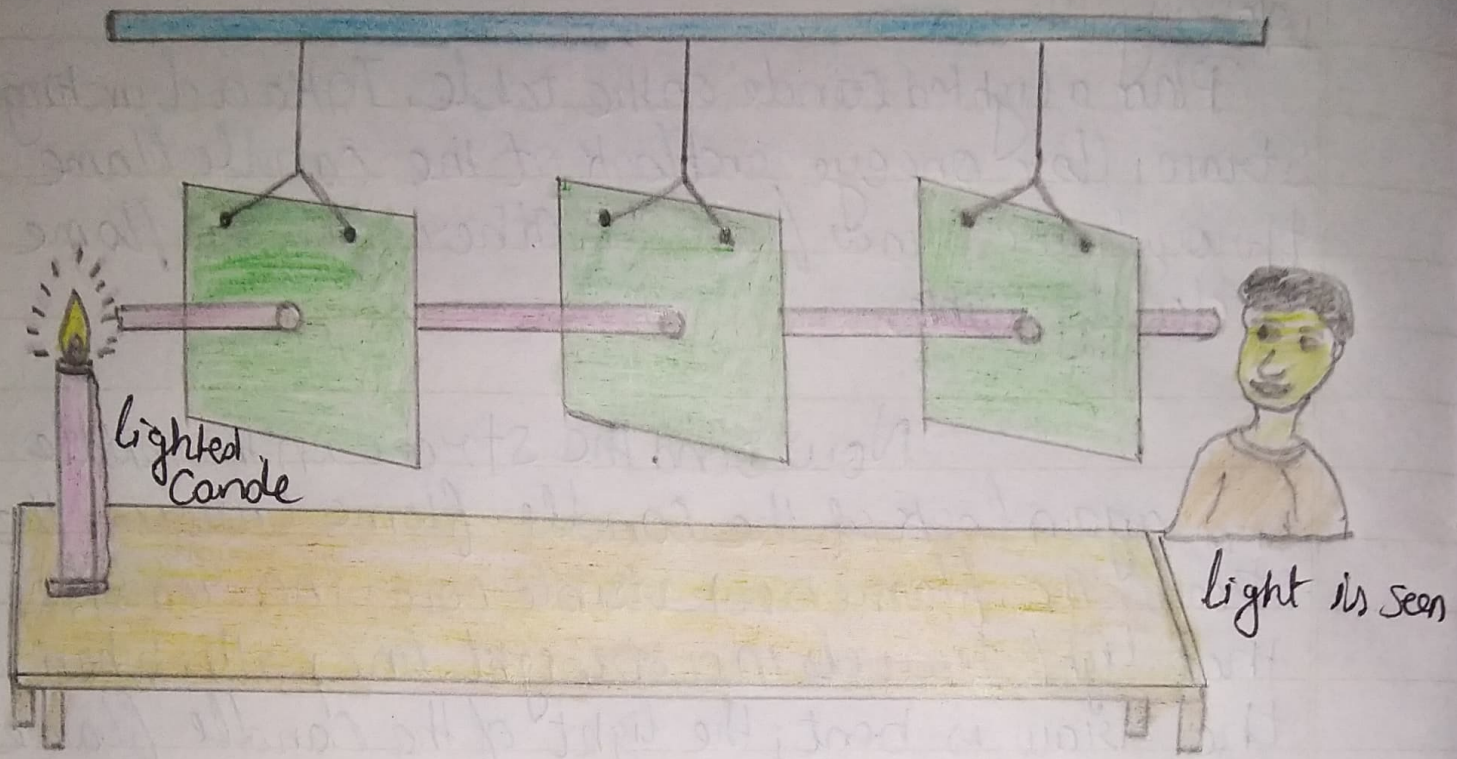
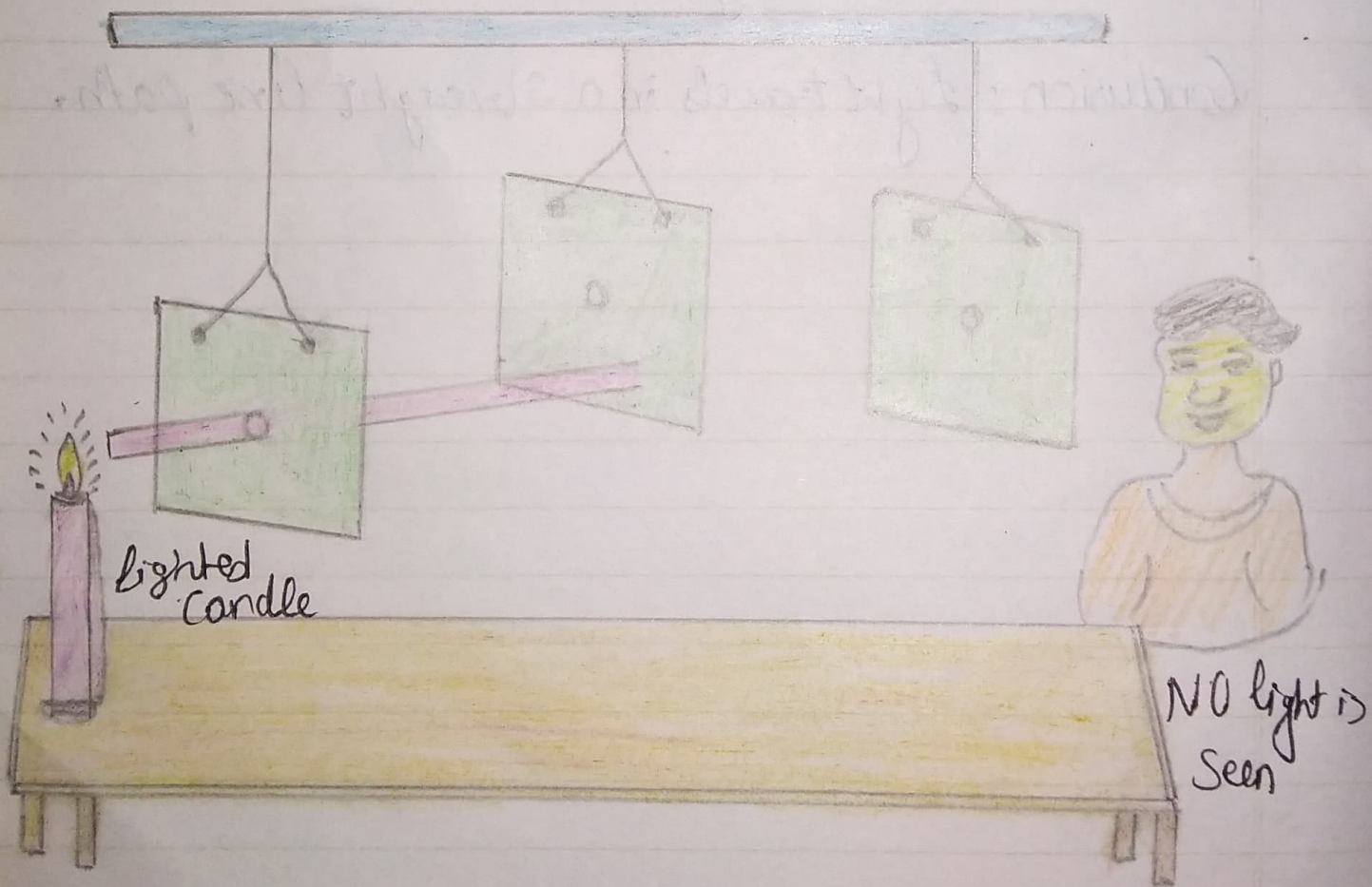
Activity - 2

Place a lighted candle on the 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.

Now bend the 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 doesn't reach our eye.

Conclusion : Light travels in a straight line path.


lighted
Candle
light is seen


lighted
Candle
NO light is
Seen

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 as 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 cardboard. 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 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.