

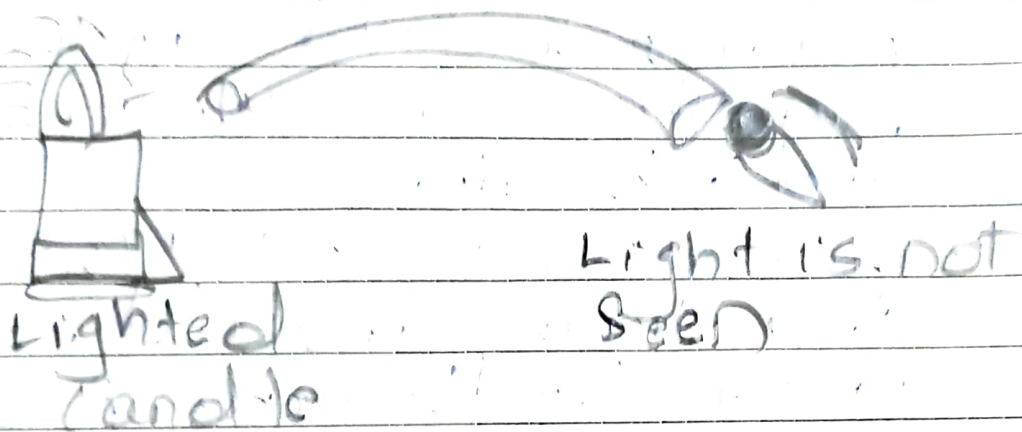
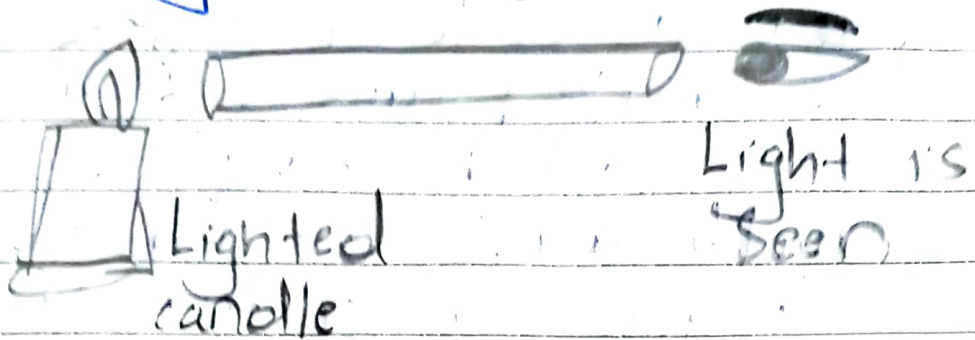
Hw = 23-11-2021
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class - 6 sec - B

Physics ch-5 Light

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 into 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 in the middle and again look at the candle flame through the straw. When the straw is bent the light candle flame

is not visible as the light rays travel in a straight line path.



Activity 3

Take three square cardboard A, B and C each of side about 5cm. Take a pin and make a small hole in each cardboard at the same ~~time~~ height. Suspend the 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 ~~to~~ string.
 Place a lightened candle flame from the other side of the card board C. The candle flame is clearly visible. Now slightly displace one of the card boards so that the holes no longer remain in a straight line. Again look at the candle flame from the other side of the card board C. You do not see the candle flame. The reason is that light travels in a straight line and now the holes in the card boards A, B and C are not in a straight line. Therefore, the flame is not visible.

