

Chapter 07

TRAVELS ALONG A STRAIGHT LINE LIGHT

Light is a form of energy. It is everywhere around us. It helps us to see things.

It also helps plants produce food. Then let's, find out the source of light. Where do we all get light from?

SOURCE OF LIGHT

Sun is the main source of light. We also get light from stars, electric bulbs & fire, etc. Objects such as sun and stars have light of their own and called luminous. Objects that do not emit their own light are non-luminous. For example, earth, moon, trees, table lamp and computer etc.

How does the sunlight reach us? Let us find out

PATH OF LIGHT

Have you ever noticed the headlight of the car? You can see a strong beam of light that helps us see the road at night.

You might also have seen the torchlight of the lighthouse. Light is travelling from the source in a certain direction.

Let us understand the path of travel of this light with a simple activity.

Take a lighted candle. Take a straight pipe. Try to see the candle through it. You can easily see the candle.

Now take a bent pipe and try to see the candle. Take a lighted candle. Take a straight pipe. Try to see the candle through it. You can easily see the candle.

Now take a bent pipe and try to see the candle. You cannot see the candle.

Why is it that you were able to see the candle first time but not the second time? This is because Light travels in a straight line. Similarly, you can see light travelling in a straight line from the torch, headlight of car and trains. You can also see that in a dark room, a beam of light travels from a hole in the window in a straight line.

In today's class, we learnt the sources of light and that light travels in a straight line.