

# What is light and what does it do?

1

## What are light sources and non-light sources?

Light sources are objects that **give out** light.



fire



Sun



lamp



tablet



fire-fly



lightning



candle



laptop

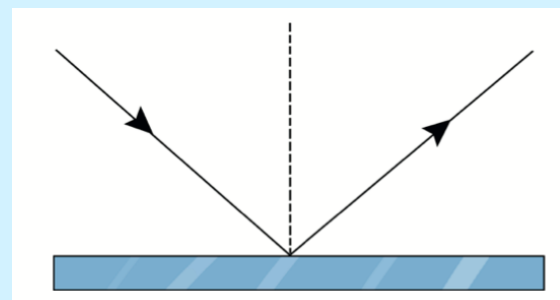
Natural light sources occur in nature.

Artificial light sources are manmade.

2

## How can we sort reflective and non-reflective materials?

We are able to see an object because light reflects off it, enters our eyes and our brains process this information.



All everyday objects reflect some light, but smooth, shiny surfaces are better at reflecting light than others.



## Key Vocabulary

<b>light source</b>	objects that give out light
<b>artificial</b>	made by humans
<b>natural</b>	occurs in nature
<b>reflective</b>	returns light from its surface
<b>transparent</b>	allows all light to pass through
<b>translucent</b>	allows some light to pass through
<b>opaque</b>	does not allow any light to pass through
<b>dark</b>	absence of light
<b>light</b>	energy that is needed to see
<b>shadow</b>	dark area caused by the absence of light

3

## What are shadows and how are they formed?



Shadows are formed when an **opaque object blocks out the light** leaving a dark area caused by the absence of light.

4

## How can we change the shape and size of a shadow?



- What is your experiment plan?
- What are you changing?
- What are you measuring?
- What are you keeping the same?
- What changes, if any, have you noticed?