

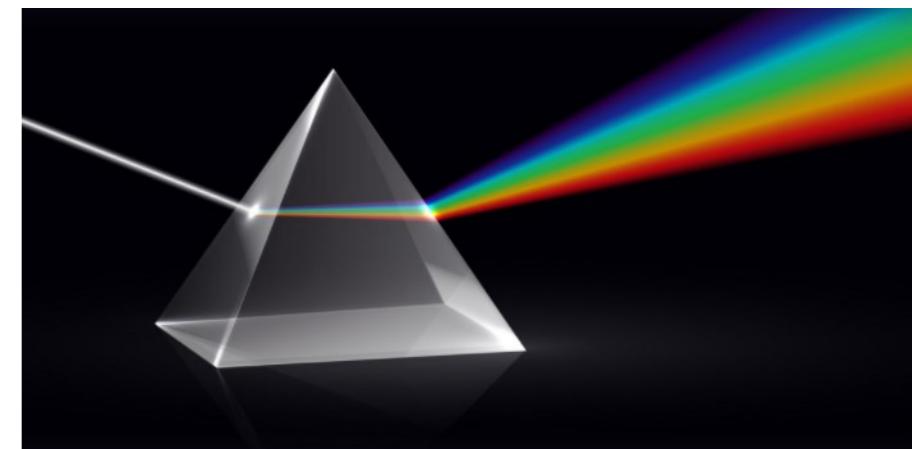
# Light

| Vocabulary   | Definition   |
|--------------|--|
| absorb       | To take in or soak up energy   |
| light source | Anything which produces or emits light   |
| opaque       | A material that does not allow light to pass through it.                                   |
| periscope    | A device which uses reflection on mirrors to see objects that are out of view              |
| reflect      | When light bounces off an object   |
| scatter      | When light is thrown in various directions   |
| transparent  | A material that allows light to pass through it  |
| wave         | Light energy travels in waves. Different colours have different sized waves (wavelengths). |

## What is light?

Light is a form of energy that enables us to see all the things around us. The main source of light on the earth is the sun. Light exists as packets of energy that travel in waves.

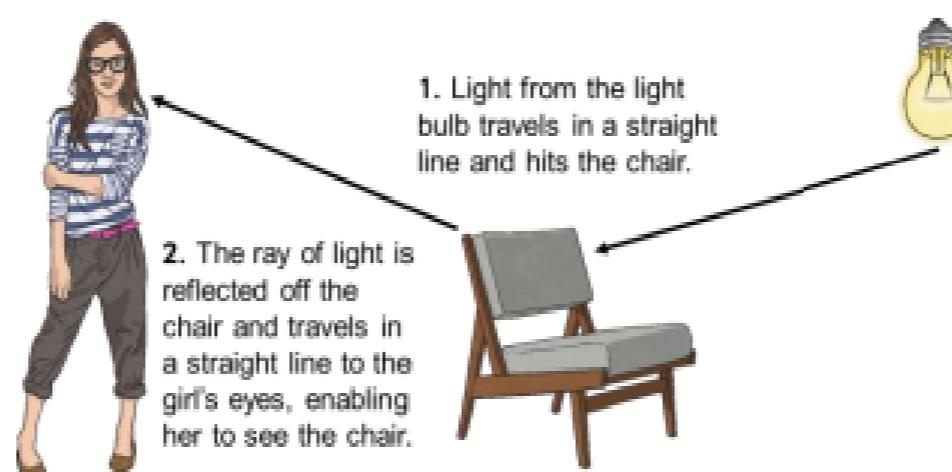
Although light looks white, it is actually made up of all the colours of the rainbow!



## How do we see?

Light travels in straight lines.

1. Waves of light travel from a light source and hit an object.
2. The light wave is reflected and enters our eyes.
3. Our eyes send this information to the brain. This is how we see the object.



## What causes shadows?

When an object passes in front of a beam of light, the light can be blocked, making a shadow. The closer an object is to the source of light the bigger the shadow.

