

How Light Travels

A task setting Powerpoint Pack about how light travels



Learning Objective

- To understand that light cannot travel through some materials and that this creates a shadow.

Success Criteria

- To know that light travels from a source.
- To understand that objects let different amounts of light pass through them.
- To know different types of light sources.

Recap

Light originates from light sources.

Can you sort these objects into light sources and non-light sources?

Mirror

Pencil

Candle (lit)

Television screen (turned on)

Stars

Moon

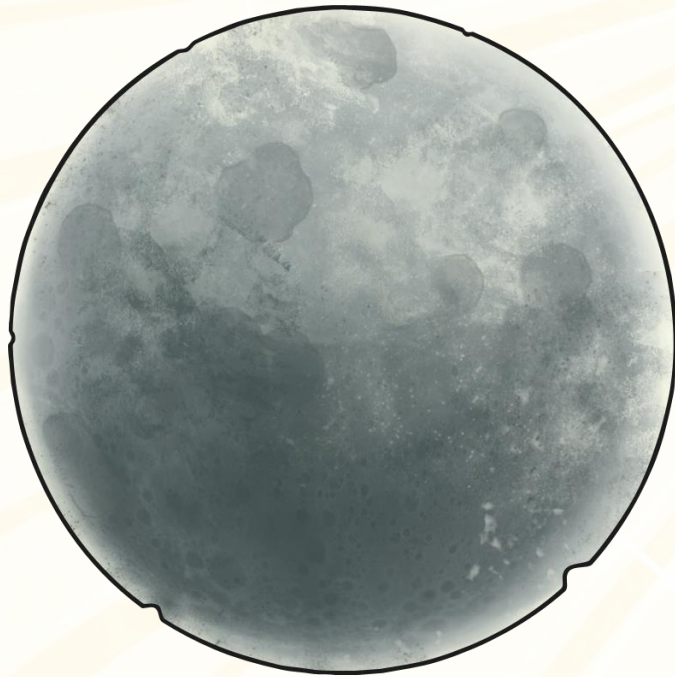
Earth

Sun

Light source	Non-light source

Recap

The moon is not a light source because it does not make its own light. Instead it reflects light from the sun, which is a light source.



Objects that reflect light from light sources are sometimes called secondary light sources.

Recap

Light sources can be natural or man-made.

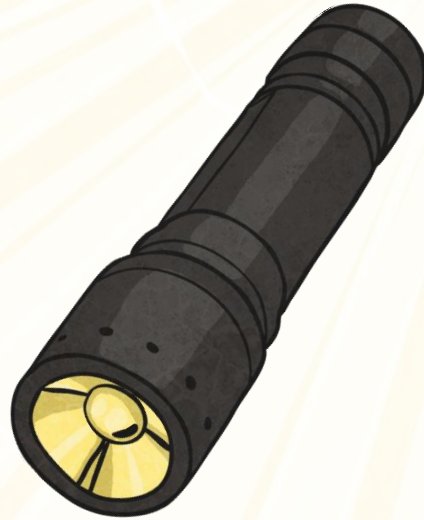
With a partner, can you make a list of natural light sources? Why do they produce light?



How Does Light Travel?

Here are some pictures of light sources.

Can you draw one of them and then draw a diagram to show how light travels from it?



How Does Light Travel?

Light travels in a straight line from a light source. We can see this if we shine a torch across a dark room.



The Peace Tower in Iceland sends a high powered beam of light into the night sky.

How Does Light Travel?

When an object passes in front of a beam of light, the light can be blocked, making a shadow.



- Opaque objects let no light through.
- Translucent objects let some light through.
- Transparent objects let all light through.

