

'Light' – Science #1

Set w/c 18th May 2020

How we see things

We need **light** in order to see things. If there is no light, we cannot see, and we experience this as **darkness**.

Light sources

Some objects make light. We call these objects **light sources**. We see light sources when light travels from them into our eyes (see fig. 1).

Other objects

Most objects are not light sources and do not make light. We can still see these objects, however, because light from light sources **reflects** (bounces) off them and into our eyes (see fig. 2).

Our eyes

Like many other animals, humans have evolved to have **eyes**. Eyes are special body organs that send signals to the brain when light enters them. Our **brain** makes sense of the signals from our eyes and uses them to build up a picture of our environment.

Figure 1. How we see light sources

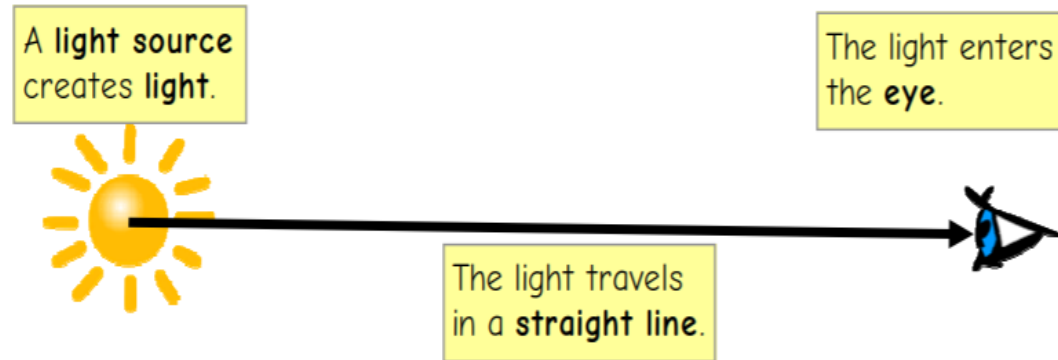
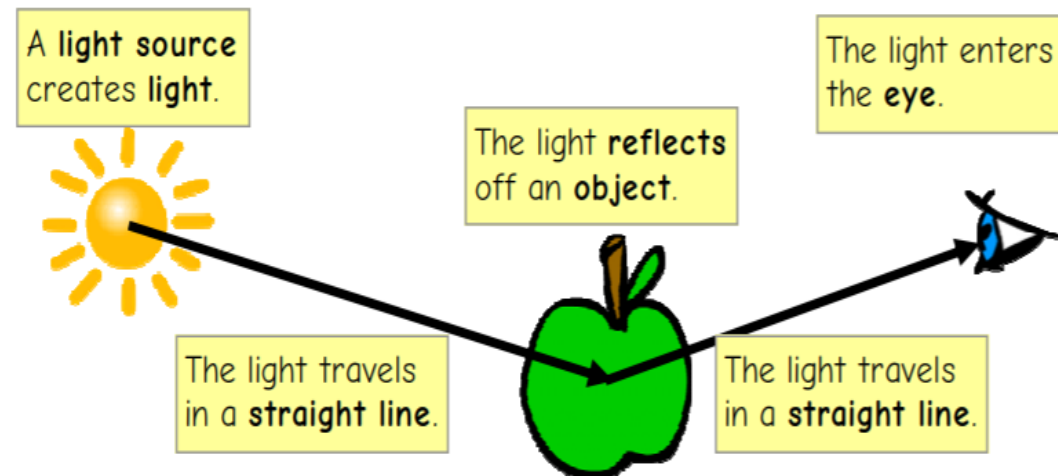


Figure 2. How we see objects that are not light sources



Activities:

1) List as many 'light sources' as you can think of.

2) Carefully cut out (or copy) the pictures and descriptions below and create your own diagram under the headings 'figure one' and 'figure two' on the following pages to show how we see things. Add your own arrows to show the path of the light.

A light source
creates light.

A light source
creates light.

A light source
creates light.

A light source
creates light.

A light source
creates light.

A light source
creates light.

A light source
creates light.

A light source
creates light.

A light source
creates light.

A light source
creates light.

The light enters
the **eye**.

The light enters
the **eye**.

The light enters
the **eye**.

The light enters
the **eye**.

The light enters
the **eye**.

The light enters
the **eye**.

The light enters
the **eye**.

The light enters
the **eye**.

The light enters
the **eye**.

The light enters
the **eye**.

The light travels in a straight line.

The light travels in a straight line.

The light travels in a straight line.

The light travels in a straight line.

The light travels in a straight line.

The light travels in a straight line.

The light travels in a straight line.

The light travels in a straight line.

The light **reflects** off an **object**.

The light **reflects** off an **object**.

The light **reflects** off an **object**.

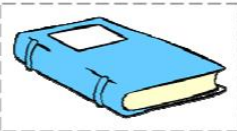
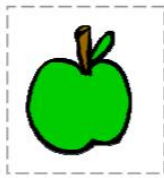
The light **reflects** off an **object**.

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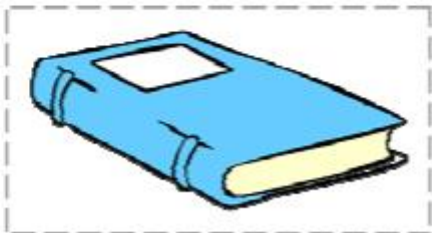
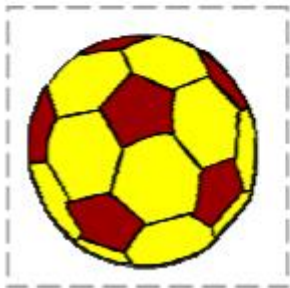
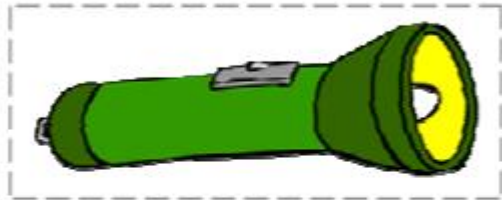
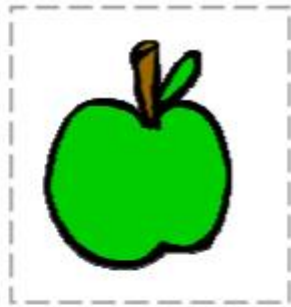


Figure 1. How we see light sources

Figure 2. How we see objects that are not light sources