

Science

Year 3 Science Knowledge Organiser, Autumn 2 2023

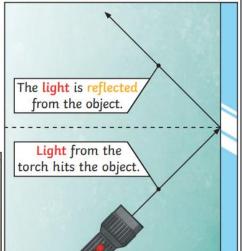
This half term our science unit of learning will be 'Light'.

Key Knowledge

We need light to be able to see things. Light travels in a straight line. When light hits an object, it is reflected (bounces off). If the reflected light hits our eyes, we can see the object. Some surfaces and materials reflect light well. Other materials do not reflect light well. Reflective surfaces and materials can be very useful...







Vocabulary:

Absence
Closer
Dangerous
Directly
Experiment
Further away
Light source
Material
Opaque
Protect
Reflect
Surface
Translucent

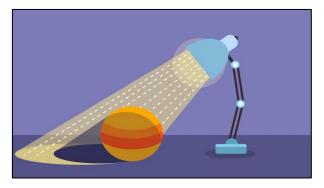
Transparent

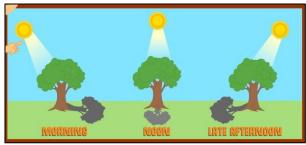
Shadows are caused when light is blocked by an opaque object. A shadow is larger when an object is closer to the light source. This is because it blocks more of the light.

By moving the position of the light source, we change the size of the shadow.

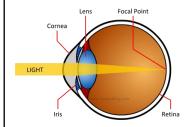
- The closer to the **light source** the opaque object is, the bigger the shadow will be. This is because the object blocks more of the light.
- The further from the **light source** the opaque object is, the smaller the shadow will be. This is because the object blocks less of the light.

Have you ever seen your body's shadow late in the evening? What does it look like?





Our pupils control the amount of light entering our eyes. If too much light enters then it can damage the retina. To help protect your eyes, you can wear a hat with a wide brim and sunglasses with a UV rating.





The sun is a **light source**, but we should be very careful when looking at it. It can be very damaging for our eyes to look directly at the sun.

What other parts of our body do we need to protect from the sun?