Key Vocabulary

Light—A form of energy that travels in a wave from a source

Light source—An object that makes its own light

Dark—Dark is the absence of light.

Reflection- The process where **light** hits the surface of an object and bounces back into our eyes.

Reflective—A word to describe something which reflects light well.

Shadow—An area of darkness where light has been blocked.

Opaque—Describes objects that do not let any **light** pass through them.

Pupil—The black part of the eye which lets **light** in.

Retina -A layer at the very back of the eye. The **retina** takes the **light** the eye receives. It then changes it into nerve signals to send to the brain.

Significant People



Thomas Edison created a 'gentle' light in a bulb that could burn for a good amount of time, making it practical to be used in people's homes.

Year 3/4 Cycle A Autumn 2

Light

Sticky 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.

Mirrors **reflect light** very well, so they create a clear image. An image in a mirror appears to be reversed. For example, if you look in a mirror and raise your right hand, the mirror image appears to raise its left hand. The surfaces that reflect **light** best are smooth, shiny and flat.

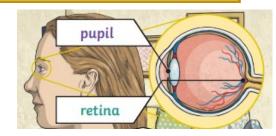


A **shadow** is caused when **light** is blocked by an **opaque** object. A **shadow** is larger when an object is closer to the **light** source. This is because it blocks more of the **light**.

When the light source is directly above the object, the shadow will be directly underneath

When a **light** source is to one side of an object, the **shadow** will appear on the opposite side. The **shadow** will also be longer.





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



Book