

## Science

## Light

## Year 2/3



### Key Vocabulary

WORD	DEFINITION
<b>Beam</b>	A ray of light.
<b>Mirror</b>	A surface, typically of glass coated with a metal which reflects a clear image.
<b>Opaque</b>	Not able to be seen through.
<b>reflect</b>	The process that describes light bouncing off a surface.
<b>Shadow</b>	A dark image that is formed when an object blocks the light.
<b>Light source</b>	An object from which light is made. E.g. sun, torch, flame.
<b>Transparent</b>	Able to be seen through.
<b>Translucent</b>	Some light can pass through the material.
<b>Vitamin D</b>	A vitamin that come from sunlight or food and important for bone strength.

### 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.
- Remember the Sun can be dangerous.
- **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.
- 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.

### Light and materials

#### TRANSPARENT

ALL light passes through



WINDOW

#### TRANSLUCENT

SOME light passes through



SUNGLASSES

#### OPAQUE

NO light passes through

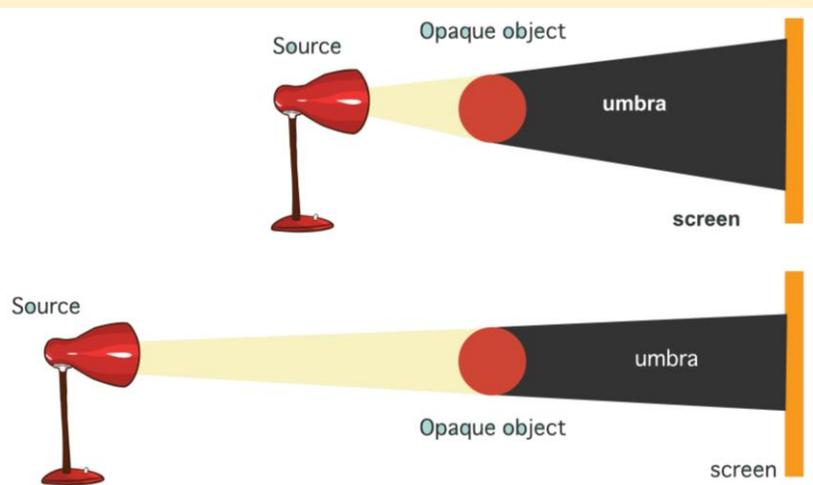


BACKPACK

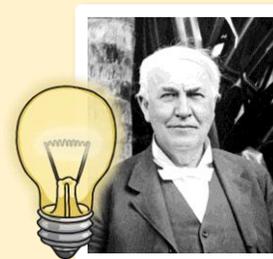
### Shadows

### Key Scientist/inventor

### Reflection



**Thomas Edison** was a very careful worker, who is now known as one of the most important inventors in history. In 1879, Edison created a lightbulb that would stay lit using electricity for 13 ½ hours!



Light from the torch hits the object.

The light is reflected from the object.

