


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

Light

Key Knowledge

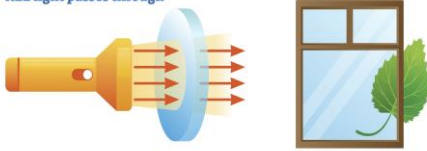


- We need light to be able to see things. Light travels in a **straight line**.
- When light hits an object, it is reflected (**bounces off**).
- If the reflected light hits our eyes, we can see the object. Some surfaces and materials reflect light well. Other materials do not reflect light well.
- **Reflective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

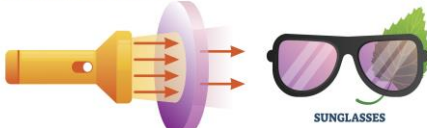
Year 3

Light and materials

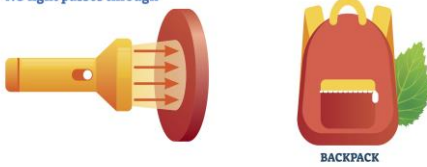
TRANSPARENT
 ALL light passes through



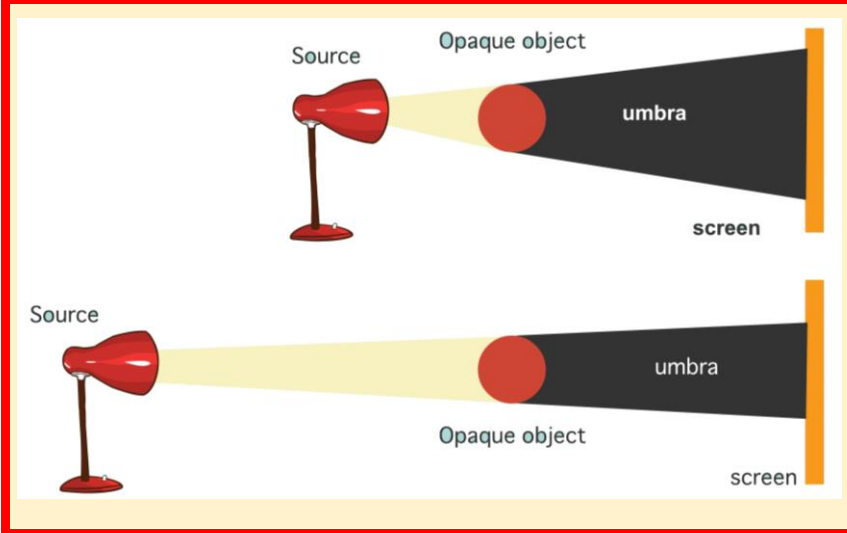
TRANSLUCENT
 SOME light passes through



OPAQUE
 NO light passes through

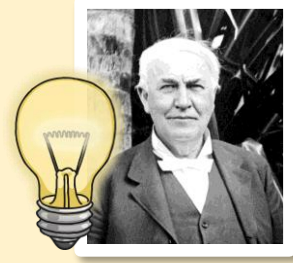


Shadows



Key Scientist/inventor

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!



Reflection

Light from the torch hits the object. The light is reflected from the object.

