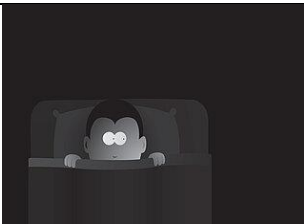
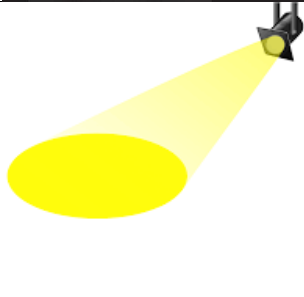


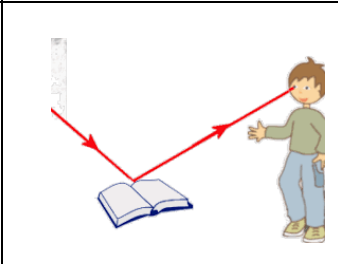
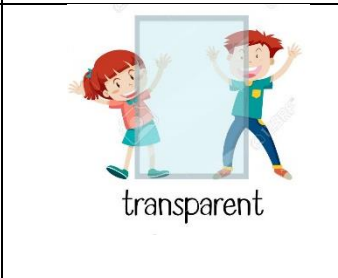
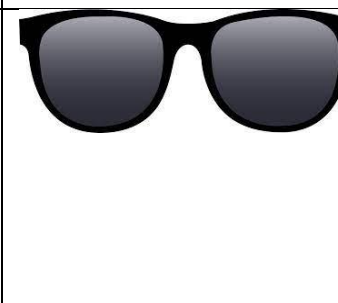
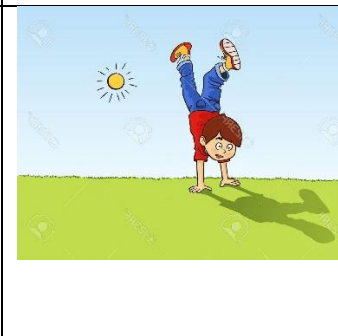


Science Knowledge Organiser – Year 3

Light and Dark



Vocabulary	Definition	Picture
dark	Dark is the absence of light.	
light	A form of energy that travels in a straight line from a source.	
light source	An object that makes its own light.	
opaque	Describes objects that do not let any light pass through them.	
ray	Waves of light are called light rays or beams.	

Vocabulary	Definition	Picture
reflection	The process where light hits the surface of an object and bounces back into our eyes.	
transparent	Describes objects that let light travel through them easily. They are see-through.	
translucent	Describes objects that let some light pass through, but scatter light so we can't see through them properly.	
shadow	An area of darkness where light has been blocked.	



Science Knowledge Organiser – Year 3

Light and Dark



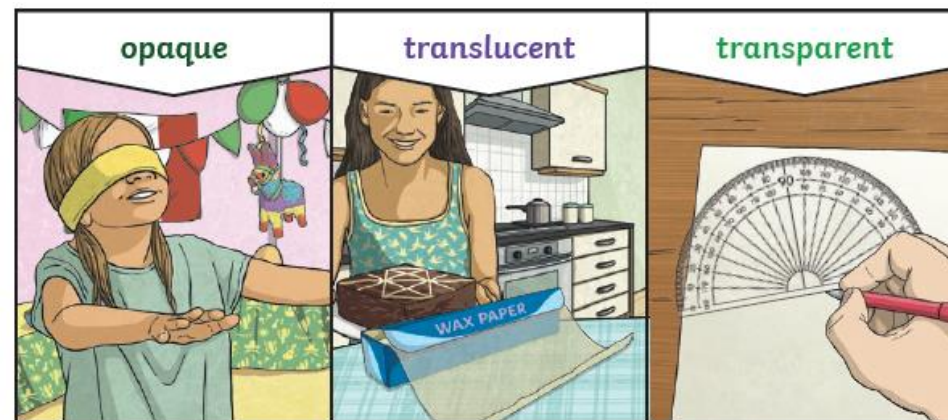
Key Knowledge Facts

We need light to be able to see things.

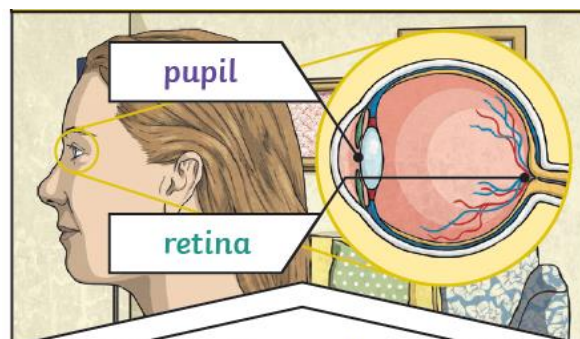
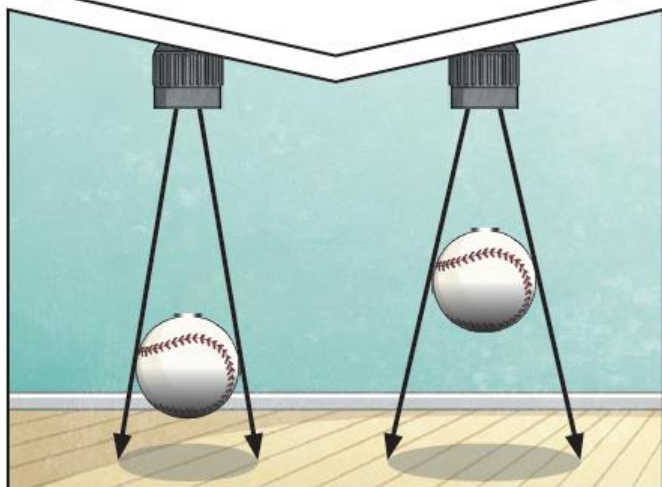
Light travels in a straight line.

When light hits an object, it is reflected and bounces off. If the reflected light hits our eyes, we can see the object.

Some surfaces and materials reflect light well and other materials do not reflect light well.



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**.



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.

