

inked scientists

Percy Shaw - Inventor of the cat's eye


Key Vocabulary	
angle	Direction from which you look at something
light source	Something that produces light
matte	A dull or flat surface
mirror	Piece of glass that reflects light
opaque	An object or substance that you cannot see through
pupil	The black part of the eye which lets light in
reflect	When light is sent back from a surface and doesn't pass through it
retina	A layer at the very back of the eye. It takes the light the eye receives. It then changes it into nerve signals to send to the brain.
shadow	A dark shape on a surface when something stands between the light and the surface
shiny	A glossy or smooth surface
sunlight	Natural source of light. You must never look directly at the sun without protecting your eyes
surface	The flat top part or the outside of an object
translucent	Translucent materials let some light pass through
transparent	Transparent materials let all light through

### What I will know by the end of the unit

We need light to be able to see things



We are able to see things because our eyes sense light. We need light so that we are able to see in the dark, this is because dark is the absence of light. The sun and stars give us light.



We must never look directly at the sun as it is dangerous and can damage our eyes.



A light source is something that produces light. There are many light sources:

- The sun, stars and flames
- Lamps, car headlights and torches.
- Glow sticks
- The moon is NOT a light source. It simply reflects light from the sun.



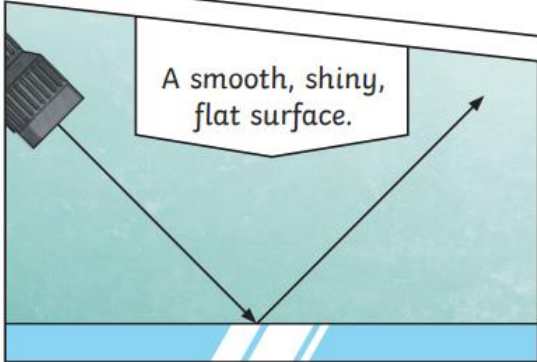




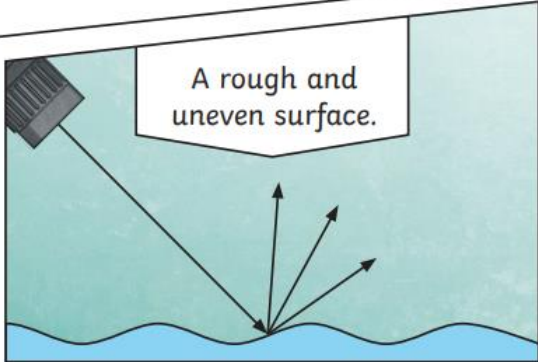


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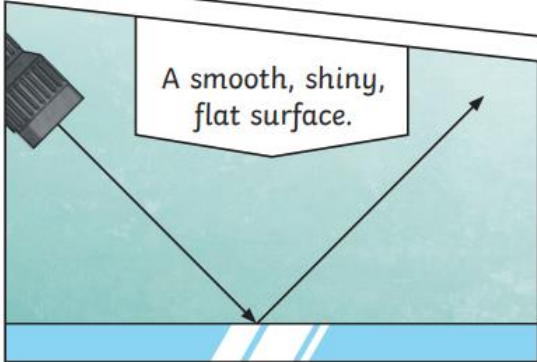
Light is reflected from different surfaces

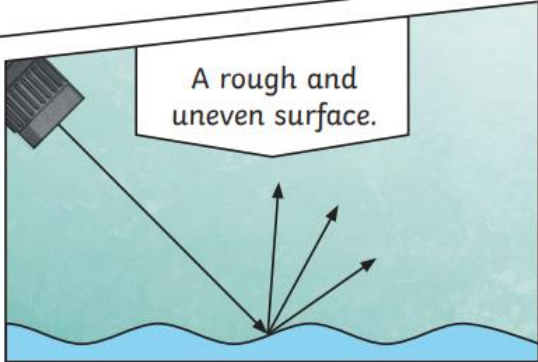


Light travels in straight lines and some surfaces reflect light.

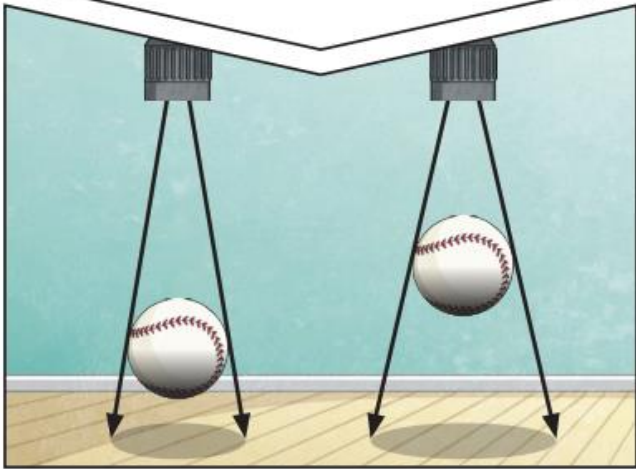


The surfaces that reflect light best are smooth, shiny and flat.





Shadows are formed when the light from a light source is blocked



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.

