



Lesson Sequence



1. Identify the difference between light sources and non-light sources



2. Explore the light that comes from the sun and how to stay safe



3. Explore materials which are reflective



4. Discover how shadows are formed



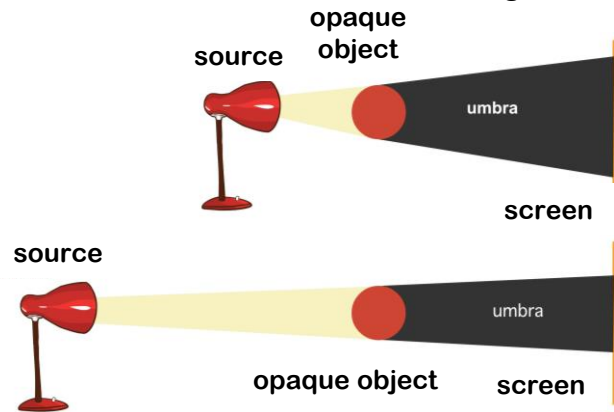
5. Investigate how shadows change throughout the day



6. Investigate how you can change the size of a shadow

Size of a shadow changes

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.



Key Facts

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.



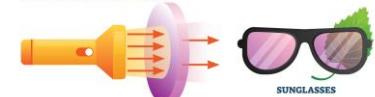
Mirrors and reflection

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.

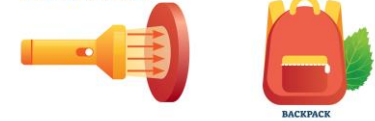
TRANSPARENT
ALL light passes through



TRANSLUCENT
SOME light passes through

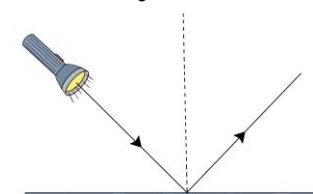


OPAQUE
NO light passes through



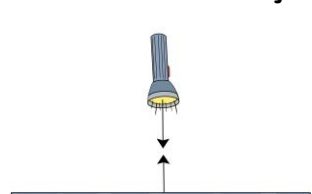
Light is reflected from surfaces

Light from the torch hits the object.



regular reflection

The light is reflected from the object.



irregular reflection

