



Year 3 Science - Lights and optics (physics)

Knowledge and skills
Empower
You to
Succeed

Cronton CE Primary School

Keys to
Success

Autumn Term

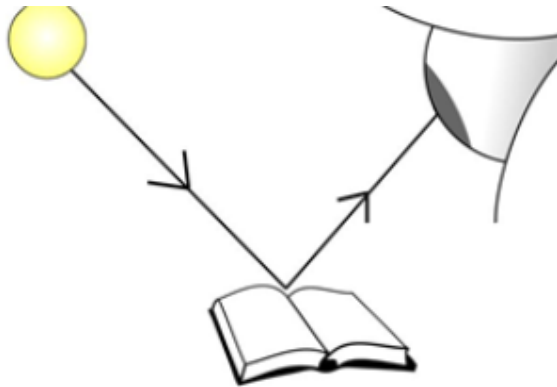


Knowledge

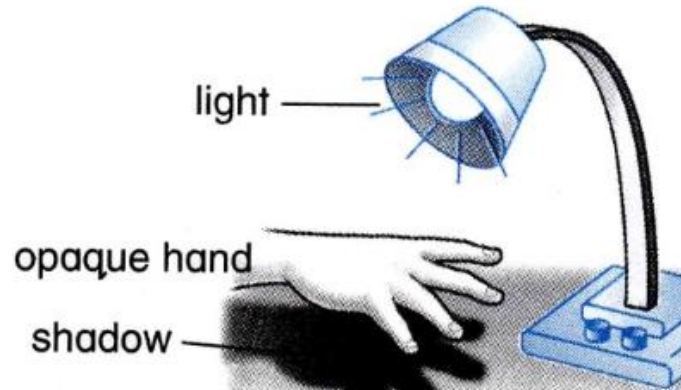


Vocabulary

- Our eyes sense light so we can see objects.
- Some objects are sources of light. E.g light bulbs, candles and the Sun.



- For objects that are not a light source, light must be reflected from the object into the eye for us to see it.



- Some surfaces reflect light.
- Dark is the absence of light. We cannot see anything in complete darkness.
- Objects that block light will cause shadows.
- Light travels in straight lines.
- The shape of the shadow will be the same as the outline of the object creating it.
- The size of the shadow depends on the position of the light source and the object.

Light source - where light comes from e.g. candle, the Sun.

Reflect - when a surface bounces light back.

Mirror - a shiny surface that reflects light in a regular way.

Opaque - not see through (does not allow any light to pass through).

Transparent - see through (lets light pass through).

Translucent - almost see through (lets some light through).

Shadow - dark shape or outline that is made when light is blocked.

Absorb - take in or soak up e.g light hits opaque object, is absorbed and shadow created.

Evidence - something is a science enquiry that makes you believe something is true.