

# Science (Y6) – Flip the Switch

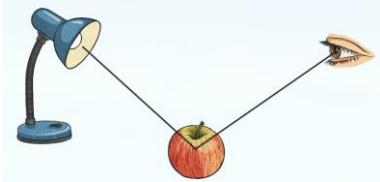
## Light

### Prior Knowledge

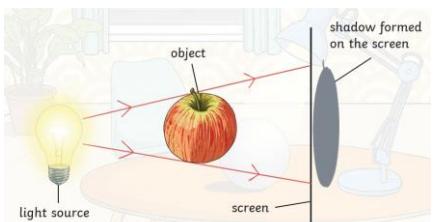
- Know we need light to see things and that dark is the absence of light
- Notice that light is reflected from surfaces
- Recognise that shadows are formed when the light from a light source is blocked by a opaque object
- Know the size of shadows can be changed

### Key Knowledge

- Light travels in straight lines
- We see objects when light from them goes into our eyes
- The light may come directly from the light source
- For objects that are not a light source, light must be reflected from the object into our eye for us to see the object:



- Objects that block light will cause shadows
- As light travels in a straight lines the shape of the shadow will be the same shape as the outline of the object:



Change

Hardship

Adaption

Strength



### Key Vocabulary

<b>light source</b>	A natural or artificial source of light
<b>straight lines</b>	Light travels in straight lines
<b>light ray</b>	Each line of light travelling in a straight line
<b>reflect</b>	To throw back light from a surface
<b>shadow</b>	A dark area created when light from a light source is blocked by an object
<b>opaque</b>	Describes objects that do not let any light pass through them
<b>transparent</b>	Describes objects that light travels through easily, meaning we can see through the object
<b>translucent</b>	Describes objects that let some light through but scatters the light so we cannot see through them properly

*How does light enable humans to see?*