

# Light (Year 3)

## Prior Learning

- Year 1: Uses of every day materials.
- Light comes from a light source: Torch, sun, screen, candle etc
- Shadows can be made with opaque materials by blocking the light

## Key Vocabulary

**Cause and Effect:** Something happening because a different thing prompted it to happen

**Function:** Work or operate in a particular way

**Shadow:** A dark area in the shape of an object blocking light

**Reflect:** The throwing back of light or heat

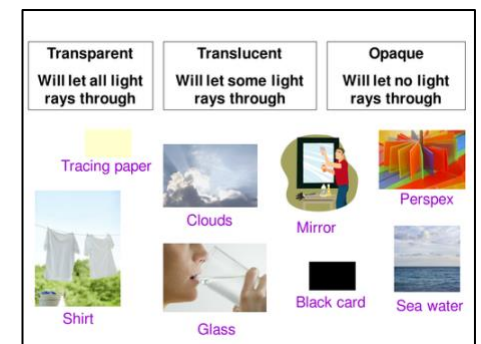
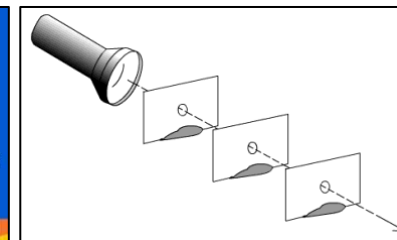
**Translucent:** Partly see-through

**Source:** A place, person or thing where something starts from

## Key Facts

1. Torch, fire, electric lamp are light sources, the moon is not a light source.
2. Light can only travel in straight lines
3. Light reflects off surfaces and some surfaces reflect better than others.
4. That light is needed to be able to see.
5. The sun can be harmful, especially to eyes and never to look directly at it.
6. Opaque materials make the best shadows.

## Images and Icons



# Light (Year 6)

## Prior Learning

- Year 3: Light.
- Darkness is the absence of light
- The sun can damage your eyes if you look directly at it
- We can protect our eyes from the sun using sunglasses
- When light hits a mirror, it reflects the other way

## Key Vocabulary

**Cause and Effect:** Something happening because a different thing prompted it to happen

**Function:** Work or operate in a particular way

**Accuracy:** Correct or Precise

**Reflection:** The throwing back of light or heat

**Precision:** Exact or accurate

**Source:** A place, person or thing where something starts from

## Key Facts

- 1) light travels in straight lines from a source and reflects off an object into the eye, allowing us to see the object
- 2) Shadows are created when an opaque object blocks the ray of light.
- 3) Shadows can be elongated or shortened depending on the angle of the light source but are always the same shape as the object that is blocking the path of light.
- 4) Reflection is when light bounces off a surface and changes direction
- 5) Light travels as a wave. It does not need a medium to travel through which means it can travel through a completely airless space
- 6) Light bends when it moves from air to water. This can make objects appear bent and is known as refraction

## Images and Icons

