

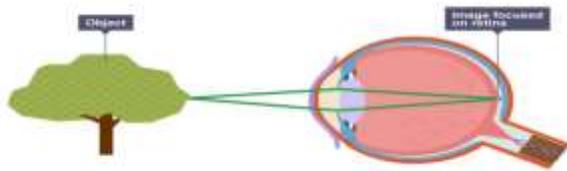
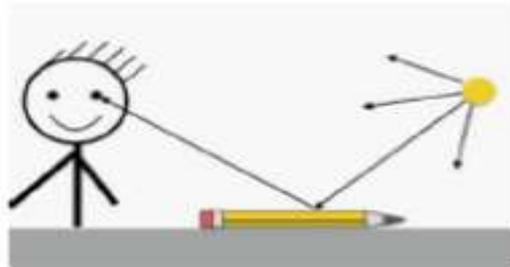
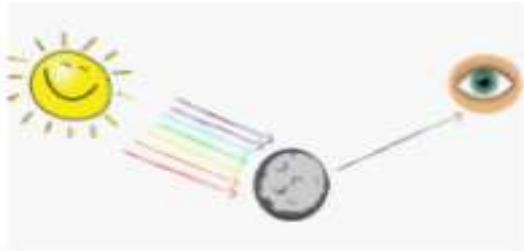


Light Year 6

What I need to know

- Light appears to travel in straight lines.
- We see objects when light from objects goes into our eyes.
- Light can come directly from light sources. For some objects, some light must be reflected from the object into our eyes so we can see the object.
- Objects that block light, and are not fully transparent, will cause shadows. Because light travels in a straight line, the shape of the shadow will be the same as the outline shape of the object.

How we see things:



We see things because:

- A light source sends light directly in our eyes
- Light from a light source hits an object and is reflected into our eyes

When the light enters our eyes, we can see the object.

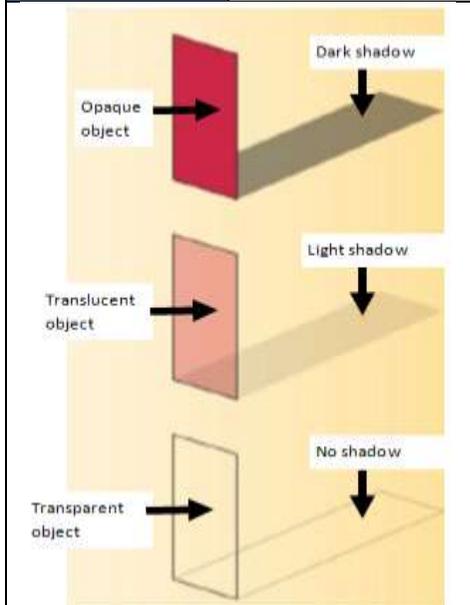
Example:

- We see the sun because it is a light source sending light into our eyes.
- The moon is not a light source. We see it because the light from the sun reflects off it into our eyes.

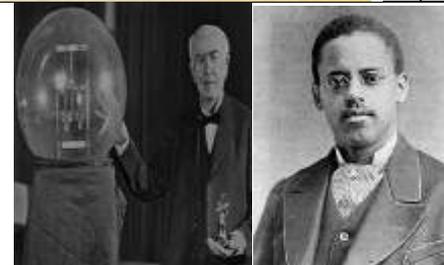
When light hits an object, it continues to travel in a straight line but goes in a different direction.

Key Vocabulary

Light source	An object that produces its own light
Reflects	Sent back from a surface and does not pass through it
Transparent	When light travels through an object.
Translucent	When some light can travel through an object
Opaque	When no light travels through an object
Light rays	Imaginary lines that show the movement of light from its origin source to a surface or object



- Light originates from a light source.
- Light sources can be natural (e.g. the sun, stars) or man-made (street lamp, candle, TV).
- Light travels in a straight line from light sources.
- We can see light that travels in straight lines when we shine a torch in a straight line, or when a ray of light comes through a window.
- When an object passes in front of a ray of light, the light can be blocked, creating shadows.
- Opaque objects let no light through (creating a dark shadow), translucent objects let some light through (creating fainter shadows), and transparent objects let all light through (no shadow).



Prominent scientists – Thomas Edison and Lewis Latimer. Research how they developed the light bulb.