

**Key Question:** How do we see objects?

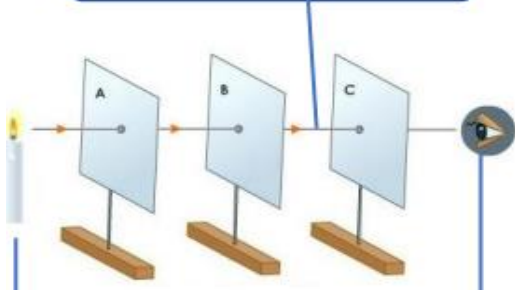
Light

UKS2

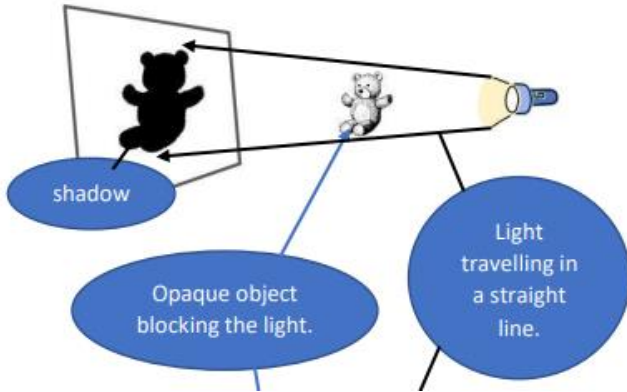
Advent 1

**Light travels in a straight line:**

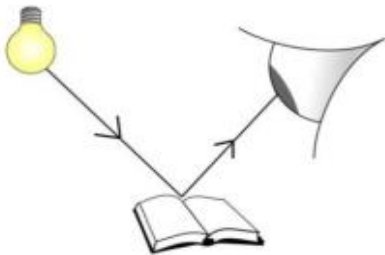
We can use an arrow to represent the path of the light.



**Shadows have the same shape as the objects that cast them:**



**For objects that are not a light source, light must be reflected from the object into our eye for us to see the object:**



**Core Knowledge**

- Light travels in straight lines from a light source
- Light rays reflect off opaque surfaces
- We see objects because light travels from a light source and reflects off the object into our eyes
- Shadows are cast because light is reflected or absorbed by an object
- Shadows are the same shape as the object that casts them because light travels in straight lines

**Vocabulary**

How does light travel?

Light always travels in...	Straight lines
Light bounces off an opaque object/surface	<b>Reflect/Reflection</b>
A single straight line of light	Light ray
The origin of the light ray	Light source
A dark area where light is blocked or <b>absorbed</b> by an opaque object	Shadow
When light is taken into an object (the opposite of <b>reflected</b> )	<b>Absorbed</b>
How do we see?	
The part of the eye that focuses light	<b>Lens</b>
To direct light rays and make an image clear to see	Focus
The back part of the eye that forms the image (sees)	<b>Retina</b>

**Pre/Post Quiz (complete separately):**

1. Light travels
  - a) noisily
  - b) in a straight line
  - c) to a light source
  - d) only in the dark
2. Shadows are the same shape as the object that casts them. True/False
3. Put these in order:
  - a) We see an object
  - b) Light is reflected off the object
  - c) Light travels from a light source to an object
  - d) Light travels from the object to our eye
  - e) The light enters the eye and is focused on the retina by the lens
4. Can you name 5 different light sources?

