

Physics- Light

Subject Specific Vocabulary

Reflect	The way light bounces back when it hits a surface.
Light rays	Light travelling in a straight line.
Periscope	An object that uses the reflection of light to help you to see.
Light source	Any object that produces its own light.
Shadow	A dark area formed when an opaque object blocks the rays of light.
Transparent	An object that allows all light to pass through.
Translucent	An object that allows some light to pass through.
Opaque	An object that does not allow light to pass through it.

Associated Diagram

Draw the light ray to show how the boy can see the book

Draw where the shadow would be formed

Draw a light ray to show how the periscope works (hint: show arrows to show the direction of travel)

Sticky Knowledge

Transparent objects allow all light to pass through e.g. regular glass window therefore we can clearly see objects behind them.
Translucent objects lets some light pass through e.g. frosted glass windows therefore we can only partially see objects behind
Opaque objects do not allow any light to pass through them. E.g. a brick wall and we can not see any objects behind them.
Not all objects give off light, only some. E.g. sun, candle, torch, bulb.
Reminder- moon reflects light and doesn't
Light travels in straight lines
We see because light reflects off objects into our eye.
When straight light rays hit an opaque object a shadow is formed due to the absence of light. The shadow takes the shape of the