

2 - Opaque, Transparent, Translucent

- Level 4 - Identify Materials as translucent, transparent or opaque
- Level 5 - State that objects that do not give out light are seen when light reflects off them and enters the eye;
- Level 5 - State that light may be absorbed, transmitted or reflected when it hits an object.
- Level 6 - Relate the way substances affect light to how they appear.

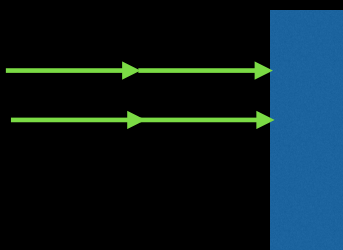
Light travels in straight lines.

We represent this by always drawing light ray diagrams with a ruler. The arrow on the ray shows the direction the light is travelling.



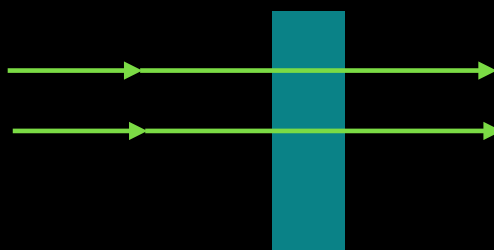
Main

Opaque - An object or surface that does not allow light through. Light is either absorbed, reflected or scattered.



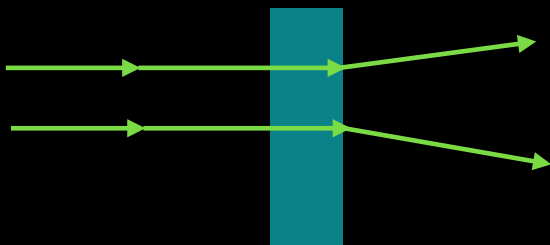
Main

Transparent - An object or surface that does allow light through.



Main

Translucent - An object or surface that does allow light through but scatters it on the other side so you cannot see an image..



Transparent	Translucent	Opaque

Go around the room and classify any materials that you can find.

Are there any more that you can think of? At least 10 in total.




Task


Make a fact sheet describing what transparent, translucent and opaque mean.

Make sure to include...

- Key definitions.
- Examples of each material.
- What happens to the light rays for each material.



Review



1. What are materials which allow no light through called?
2. Give an example of a **transparent** material.
3. What happens to light when it meets a **translucent** material?

Level 4	Level 5	Level 6
State what transparent, translucent and opaque mean.	Give examples of transparent, translucent and opaque materials.	Describe what happens to light rays as they come into transparent, translucent or opaque materials.

Extension Questions


Does all of the sound bend or does some of it bounce?
 What other differences are there between light and sound waves? What similarities?

cwk
Date

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Which level do you think you achieved today?



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