




### Can light travel through things?

It depends what material the object is made from...

<b>Transparent</b> – light can travel through the material	Glass/water 
<b>Translucent</b> ( <i>trans-loo-sent</i> )– <u>some</u> light can travel through the material	Coloured glass 
<b>Opaque</b> ( <i>oh-payk</i> ) – doesn't let <u>any</u> light through	Cardboard 

1.) Watch this clip to learn more about transparent and opaque materials: <https://www.bbc.co.uk/bitesize/clips/z3mb9qt>

2.) Scavenger hunt!

You will need: Objects (see below), a torch, sorting chart

- Collect objects around your house or garden that you think are transparent, translucent and opaque (2 or 3 of each will do).
- Use the chart above and test each object by shining a torch at it.
- Sort your objects - either label 3 groups and take a picture, or draw/label your objects on the chart.
- Were there any you were surprised by?
- Did you notice any reflections or shadows? Which types of materials produced them?

Transparent

Translucent

Opaque

Choose one object to write about:

When I shone the torch on \_\_\_\_\_ I noticed that \_\_\_\_\_

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I think this is because \_\_\_\_\_

reflection/reflects

light

through

material

blocks

travels

shadow