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| Vocabulary |
| Opaque | Opaque materials do not let any light through. They block the light e.g. wood. |
| Translucent | Translucent materials let some light through, but they scatter the light in all directions so you cannot see clearly through them e.g. tissue paper. |
| Transparent | Transparent materials let light through them in straight lines so that you can see clearly through them e.g. glass. |
| Light source | The main light source for Earth is the Sun. Some other luminous objects give out light, for example, torches, candles and lamps. |
| Reflection | A reflection occurs when a ray of light hits a surface and bounces off. |
| Shadows | A shadow is formed when an object blocks out the light. The object must be opaque or translucent to make a shadow. |

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| Sticky knowledge |
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| We need light to see things and darkness is the absence of light. |
| Light travels in straight lines. |
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| Everything we see is either a light source or something that is reflecting light from a light source into our eyes. |
| The Sun is a light source, but the Moon is not. The Moon is reflecting light from the Sun. |
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Objectives

-recognise that they need light in order to see things and that dark is the absence of light

-notice that light is reflected from surfaces

-recognise that light from the sun can be dangerous and that there are ways to protect their eyes

- recognise that shadows are formed when the light from a light source is blocked by a solid object

-find patterns in the way that the size of shadows change

Is a mirror a light source?

Can a transparent object make a shadow?

The Moon is a light source. True or false?

