



Knowledge Organiser

KEY VOCABULARY

Shadow- a patch of darkness where an opaque object is in the way of a light source.

Source- The start of something. A source of light is where the light starts.

Transparent- Light can shine through and you can see through it.

Translucent- Some light shines through it and you can partly see through it.

Opaque- No light gets through it.

Reflection- When light bounces off a surface and travels to your eyes so you can see.

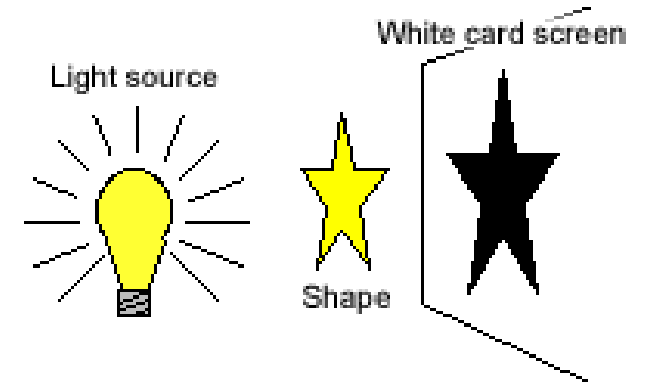
You might like to...

- Make your own periscope and kaleidoscope <https://www.wikihow.com/Make-a-Periscope>
- <https://www.wikihow.com/Make-a-Kaleidoscope>
- Draw round your shadow at different points in the day and see how it changes. Will it create a circle?

KEY FACTS

- Darkness is the absence of light.
- Natural sources of light include: the sun, stars and some amazing insects and sea creatures.
- The moon is not a source of light instead it just reflects light off the sun.
- Black objects absorb more light and heat. White objects reflect light and heat more.
- Your shadow is the smallest at midday and longest at sunrise and sunset (that is as long as there is some actual sunlight!).
- Carrots do not help you see in the dark although they do contain vitamin A which does help a little.

DIAGRAM



This diagram shows how shadows are formed. You need a light source and something that can block the light source.

Further Reading

- Nick Arnold- Frightening Light (Horrible science)
- Martin Jenkins- Fox In The Night

KEY QUESTIONS

What do I know about this already?	How might this knowledge help me?	What do I want to find out more about?	How could I find out more?	How could I present what I know?	Which parts of this do I need to try harder to understand?
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