

Year 3 - Light

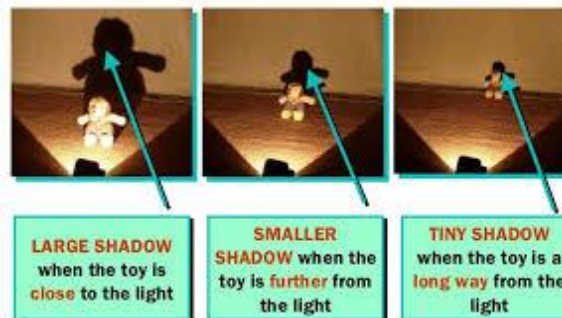


Key Vocabulary	Definition
Light source	An object which gives out light (sun, light bulbs and fire).
Opaque	An opaque material does not allow light through it.
Shadow	When light hits an opaque object, it is absorbed and a shadow is created. The size of a shadow depends on how far away the object is from the light source.
Reflect	Light is reflected from surfaces including mirrors which reflect light so we can see a reflection.
Surface	What light reflects from. Surfaces can be smooth or bumpy.
Transparent	Transparent material allows light to travel through it.
Translucent	Translucent material allows some light to pass through it

Light sources



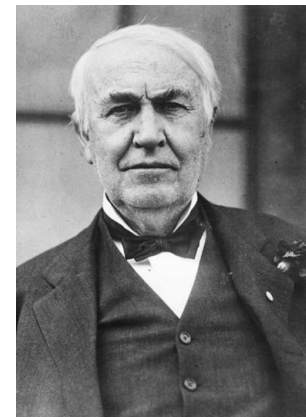
Shadow made by an opaque object blocking a light source.



Sticky Knowledge

- We need light in order to see things and that dark is the absence of light
- Light is reflected from surfaces
- Light from the sun can be dangerous and that there are ways to protect their eyes
- Shadows are formed when the light from a light source is blocked by an opaque object

Scientists Link / Inventor



Thomas Edison

6 hours

Lesson 1

Can I identify light sources?

Lesson 2

Can I create a shadow?

Lesson 3

Can I investigate why a shadow moves and changes shape throughout the day?

Lesson 4

Can I find patterns in the way that the size of shadows changes?

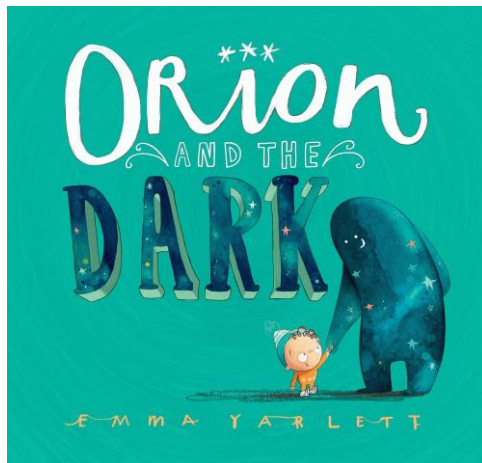
Lesson 5 (Extended writing opportunity)

Can I write a fact file about shadows?

Lesson 6

Can I understand that light is reflected from surfaces?

Link to a text



Science skills

- Make a prediction based on everyday experience.
- As a group, begin to make some decisions about the best way of answering their questions.
- Explore / observe things in the local environment / real contexts and record
- Explore their own ideas about 'what if....?' scenarios e.g. humans did not have skeletons.
- Begin to understand that some questions can be tested in the classroom and some cannot.
- Find things out using a range of secondary sources of information (e.g. books, photographs, videos and other technology).