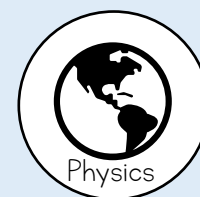


# Light

Year 6



## Review:

*What should I already know?*

- I can list some different sources of light.
- I know light is reflected from surfaces
- I can recognise that shadows are formed when the light from a light source is blocked by an opaque object.

## Essential knowledge

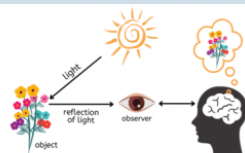
- Light travels in straight lines until it hits an object that will reflect it.

### HOW DOES THE EYE DETECT LIGHT?

Light travels in straight lines. When light hits an object,

it is **reflected** (bounces off) and enters our eyes.

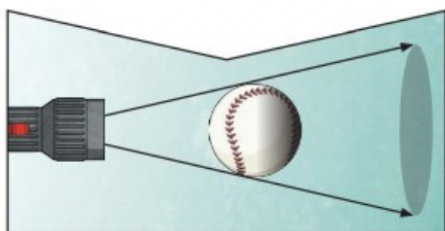
This is how we see the object.



### HOW DO SHADOWS GET THEIR SHAPE?

Shadows are made by blocking light.

Light rays travel from a **source** in straight lines. If an **opaque** object gets in the way, it stops light rays from travelling through. The shape of the object blocking the light creates the shape of the shadow.



Working Scientifically



### Our enquiry focus:

Observing Changes Over Time	Pattern Seeking	Identifying, Grouping & Classifying	Fair Testing	Research

## Skills I will need:

- I will set up an enquiry to investigate the shape of shadows.
- I will record my findings about what happens when the source of light is moved.
- I will measure the size of shadows and observe the source of light is moved.
- I will record my data using tables.
- I will interpret my data and report my findings.

## Vocabulary

Physics	is all about Earth and space and how they work.
Working Scientifically	is all about working like a scientist to answer scientific questions.
Light	A source of energy that allows you to see.
Dark	The absence of light.
Light Source	An object that makes its own light.
Reflection	When light bounces off of a surface and changes the direction of the ray of light.
Refraction	When light bends or changes direction as a result of passing through a medium (object).



### Significant Scientist

Isaac Newton was the first to understand the rainbow. In 1672 he refracted white light with a prism, resolving it into its component colours: red, orange, yellow, green, blue and violet.

