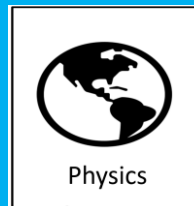


Light

Year 6



Review:

What should I already know?

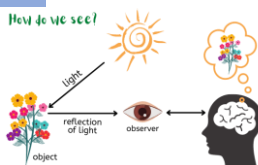
- I can list some different sources of light.
- I know light is reflected from surfaces
- I can recognise that shadows are formed when the light from a light source is blocked by an opaque object

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.



Vocabulary

Physics	is all about working like a scientist to answer scientific questions.
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).

Etymology Refraction

comes from Latin words: "re-" (meaning "back") and "frangere" (meaning "to break"),

Significant Scientists.



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



Our enquiry focus:

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

