

Science Knowledge Organiser

Southwold Primary School



Topic: Light

Year: 6

Strand: Physics

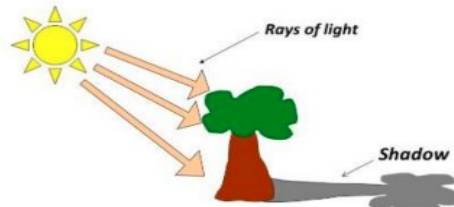
What should I already know?

- The Sun shines light, never look directly in the Sun.
- Some devices can shine light, like lamps and torches.
- When light shines on an opaque material, a shadow is created.

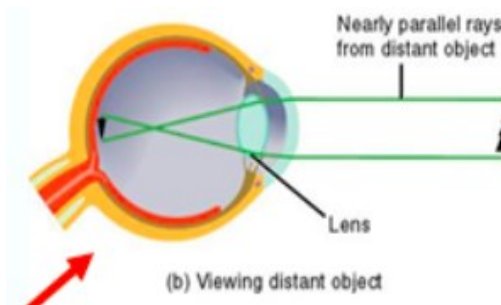
What will I know by the end of this unit?

- Light goes in a straight line. We see items because rays of light go into our eyes where nerves detect it.
- Light can reflect from objects. How much depends on the material of the object
- When light is blocked by an opaque object, a shadow is formed
- The size of the shadow depends on the distance and angle of the light source
- Materials can be grouped into opaque, translucent and transparent

Shadows



Eye



Vocabulary

beam	Light traveling in a straight line, Ray of light.
electrical	A form of energy which can create light e.g. in a lamp.
emits	To send out (light or a sound).
eye	Part of the body that can sense light .
Light source	Something that shines light.
mirror	Material that reflects lights so you can see a clear reflection.
opaque	An object that does not let light through.
Optical illusion	A situation where the brain is 'tricked' into seeing things incorrectly because the eye-brain information is translated incorrectly.
reflect	A beam of light is send back.
shadows	Absence of light because of an opaque object.
translucent	Can be seen through, allows some light to shine
transparent	Material you can see through.

Working Scientifically

- Pattern seeking through observations.
- Drawing representations.
- Performing simple tests, taking measurements with tools, recording results, representing these in tables and graphs. Drawing conclusions.
- Making recommendations for further, improved testing.

Opaque, Translucent and Transparent

