



Science Knowledge Organiser Term 5 Light and Shadows



Key Objectives

- To recognise that humans need light in order to see things.
- To understand that dark is the absence of light.
- To understand that light is reflected off surfaces.
- To understand that shadows are formed when light is blocked by an object.

Key Vocabulary

Light source	A light source is the place where light comes from.
Dark	Dark means that there is no light.
Reflected	Reflect means to change the direction of light using a shiny surface.
Shiny	A shiny surface reflects lots of light.
Dull	A dull surface scatters light and does not look shiny.
Mirror	A mirror is a shiny polished surface.
Shadow	A shadow is a dark area or shape that shows when a light source is blocked by an object.
Opaque	Opaque means that the object is not letting light pass through.
Translucent	Translucent means that the object allows some light through.
Transparent	Transparent means that the object lets most or all of the light through.

Sticky Knowledge

- **To know that darkness is an absence of light.**
Darkness happens when there is no light. We see darkness when light is blocked or when a place has very little light which makes it hard for our eyes to see.
- **To know that things are seen because light reflects from surfaces.**
We can see objects because light bounces off their surfaces and enters our eyes. Without the light reflected into our eyes, we wouldn't be able to see the object.
- **To understand how shadows are formed and some factors can change them.**
Shadows are made when an object blocks light which stops the light from reflecting off its surface. The shadow can change size and shape depending on how close the object is to the light source and where the light is shining from.