

## Key Vocabulary:

**Light** – energy that is needed to see.

**Eyes** – the parts of the body that animals see with.

**Light sources** – objects that give out light.

**Sun** – our nearest star which gives out energy as heat and light.

**Sunglasses** – glasses which protect eyes from sunlight.

**Protect** – to keep something safe.

**Shadow** – a dark area caused by an object blocking a source of light.

**Distance** – how far two points are away from each other.

**Conclusion** – what has been found out during an investigation based on measurements and observations.

**Evaluation** – to consider the quality of the results and suggest improvements to the investigation



## Holy Family Halewood

Year 3/4 Science

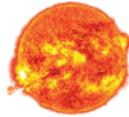
Light



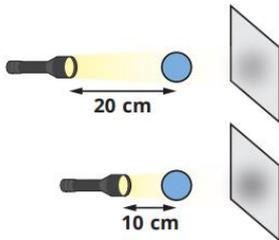
## Learning Objectives:

- To identify natural and artificial light sources and understand that darkness is the absence of light.
- To explain how light from the Sun helps us see and how light is reflected into our eyes.
- To explain how shadows are formed and how they change.
- To investigate how different materials affect light and shadow formation.
- To investigate how the distance between a light source and an object affects the size of a shadow.

**natural light sources** – objects in nature that give out light



**artificial light sources** – made by humans



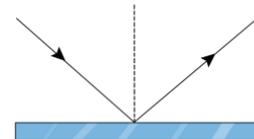
**shiny** – a surface that reflects most light



**dull** – a surface that does not reflect much light



**reflection** – the return of light from a material or surface



**Translucent**



allows a little amount of light to pass through.

**Transparent**



all light will pass through this object.

**Opaque**



no light will pass through these objects.