

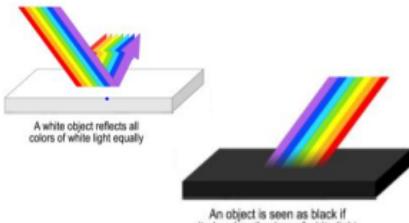
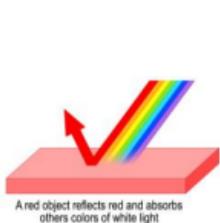
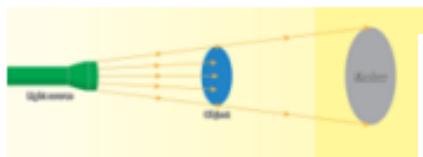


Brookfield Primary School Knowledge Organiser

Year 6: Science – Light

Key Facts:

- Light travels in straight lines. The light rays from a light source reflect off the object we are looking at. The light travels in a straight line and enters the eye through our pupil.
- Light reflects off shiny, bright or light surfaces. That is why you can see your reflection when you look in a mirror.
- Water and bent shiny surfaces cause light rays to be reflected at different angles, meaning the reflection of the image is distorted.
- Opaque objects block the light rays so they can only travel around the edges of the object in straight lines. That is why a shadow is the same shape as the object.
- The closer an object is to the light source, the bigger the shadow. The further away the object is from the shadow, the smaller the shadow.
- White light is made up of the colours of the rainbow. When light is refracted through a transparent object, a rainbow is formed.



Science is the study of the world around us through observation, description, investigation and experimentation.

Where to look:



- BBC Bitesize
- Photographs
- Library



Things to find out about:



Consider how shadows can change.

General Scientific Words/Phrases:

Enquire, investigate, observe, explore, experiment, describe, record, analyse, compare, evidence, record

Key Vocabulary to use in this topic:

| Word: | Definition: |
|--------------|--|
| Light | A form of energy. |
| Light source | An object that provides its own light. |
| Angle | The space between 2 intersecting lines. |
| Mirror | A surface that reflects a clear image. |
| Variable | Any one of the elements of an experiment which could be changed. |
| Rotate | To turn an object around a centre point. |
| Reflected | When light shines on a surface and bounces back. |
| Sunshade | A device giving protection from the sun. |
| Opaque | It describes materials which do not allow light to travel through. |
| Transparent | It describes materials which allow all light to travel through. |
| Optical | Relating to the science of optics. |
| Spectrum | A band of several colours. |

