



Science



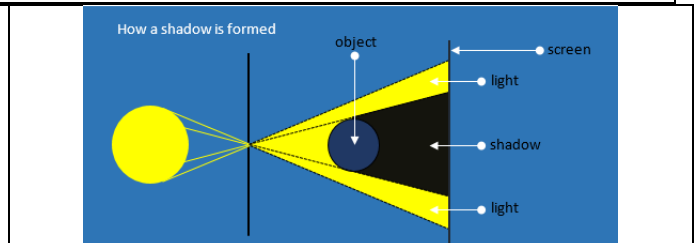
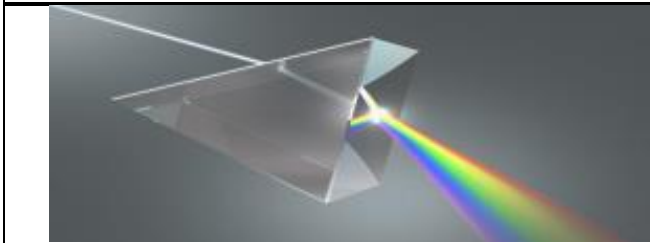
Knowledge organiser – Light (UKS2)

What will we be learning?

Light appears to travel in straight lines, and we see objects when light from them goes into our eyes. The light may come directly from light sources, but for other objects some light must be reflected from the object into our eyes for the object to be seen. Objects that block light (are not fully transparent) will cause shadows. Because light travels in straight lines the shape of the shadow will be the same as the outline shape of the object.

Key knowledge

- Recognise that light appears to travel in straight lines.
- Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye.
- Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.
- Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.



Key Vocabulary	Possible Evidence
<p>Y3 Light (Light, light source, dark, absence of light, transparent, translucent, opaque, shiny, matt, surface, shadow, reflect, mirror, sunlight, dangerous), plus straight lines, light rays</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Can describe, with diagrams or models as appropriate, how light travels in straight lines either from sources or reflected from other objects into our eyes <input type="checkbox"/> Can describe, with diagrams or models as appropriate, how light travels in straight lines past translucent or opaque objects to form a shadow of the same shape
Common Misconceptions	
<p><i>Some children may think:</i></p> <ul style="list-style-type: none"> • we see objects because light travels from our eyes to the object 	