

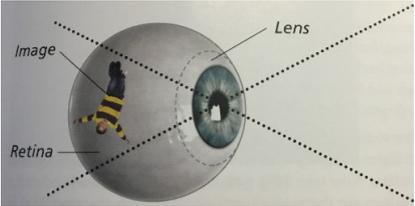
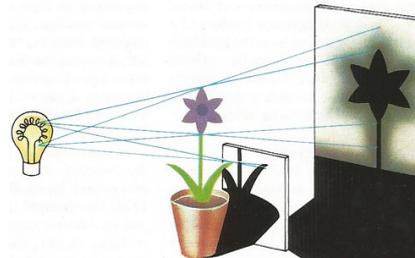
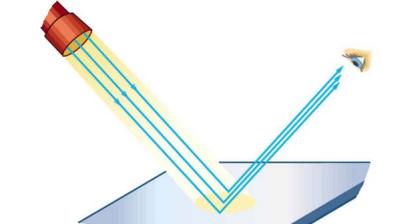
Year 6

Science: Light (half-term)

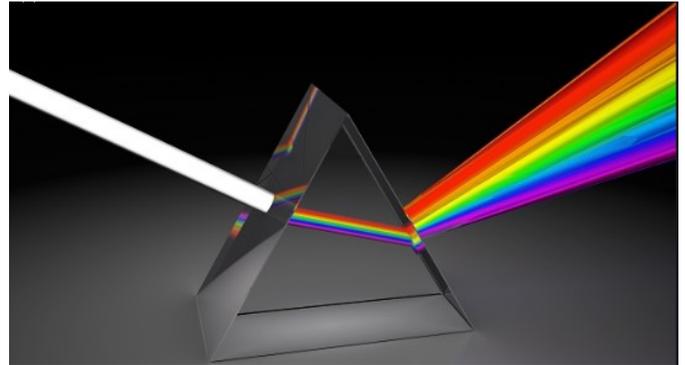
Learning to Recap (Year 3):

- Light sources create light. These include: The Sun, stars, fires, lamps and fireflies.
- Humans need light to see things. Darkness is the absence of light.
- It is dangerous to look directly at sunlight.

New Knowledge and vocabulary

Light	A form of energy which travels in a straight line. It travels at 186,000 miles per second! The spectrum of light is split into the seven colours of the rainbow.
The eye	Each eye contains an optic nerve, retina, cornea, pupil, iris and lens. The image below shows how the eye inverts the image you see - the brain then helps to make sense of it! 
Shadows	Shadows are caused when an object blocks the path of light. The image below shows how this works. 
Reflection	When light 'bounces' off a surface and changes direction. Shiny surfaces (like mirrors) reflect light better than dull surfaces. 

A prism splits white light into the colours of the rainbow



Light is dangerous **because...**

Light is dangerous **but...**

Application of knowledge

Build a working periscope to show how reflection can be used in the real world.

Write a short explanation about how the eye works, using key vocabulary.

Investigate how the size of shadows change when light sources are moved closer/further away.

A periscope allows a submarine to see objects above the water line

