

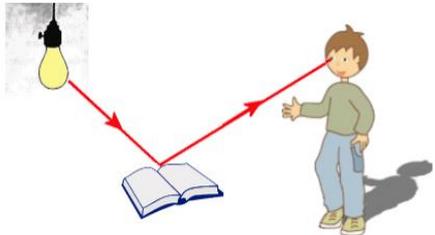
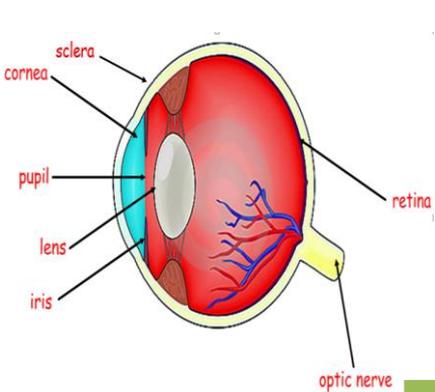


Science Knowledge Organiser - How we See - Light

Year 6 Miss Ashdown

| Key Knowledge-Science |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Light travels in straight lines. Objects are seen because they give out or reflect light into the eye. |
| We see things because the light travels from light sources to our eyes or from light sources to objects and then to our eyes. |
| Shadows have the same shape as the objects that cast them. |
| When light from an object is reflected by a surface, it changes direction. It bounces off the surface at the same angle as it hits it. |
| Smooth, shiny surfaces such as mirrors and polished metals reflect light well. Dull and dark surfaces such as dark fabrics do not reflect light well. |
| Inside the eye is a lens which focuses the light onto a surface (the retina) at the back of the eyeball. |
| The retina and is made up of special cells which detect light and send messages to our brain, allowing us to see. |
| Your pupil widens in dim light and is smaller in bright light. |
| A light source is something that provides light, whether it be a natural or artificial source of light (e.g. the sun, a torch). |

| Vocabulary | Definition |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Opaque | not able to be seen through. |
| Translucent | allowing light, but not detailed shapes, to pass through. |
| Transparent | allowing light to pass through so that objects behind can be seen. |
| Shadow | a dark area or shape produced by a body coming between rays of light and a surface |
| Reflective | throw back light without absorbing it. |
| Absorb | to take in or soak up. |
| Iris | the coloured part of the eye that surrounds the pupil. It controls how much light enters the eye by changing the size of the pupil. |
| Retina | a light-sensitive inner lining at the back of the eye. |
| Optic Nerve | Takes signals from the retina and carries them all the way to the back of the brain. |
| Cornea | the transparent front part of the eye that covers the iris. |
| Periscope | an instrument people use to look at things from a hidden position. |
| Pupil | The little dark circle in the centre of each eye lets light in |

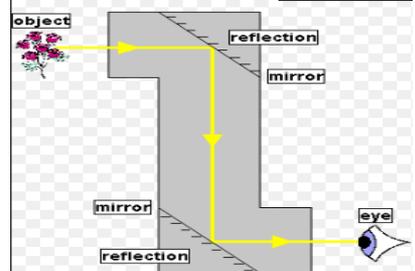


Reflection

How we see objects

Wow Activity

Experiment
Dissecting an Eye- links with High School



Parts of the Eye