

# Eagle Owls

## Light - Knowledge Organiser

### Key Vocabulary

#### The eye:

**Cornea** - The transparent coating that covers the front of the eye.

**Lens** - This focuses light onto the retina.

**Optic nerve** - Sends signals of light, dark and colour to the brain.

**Pupil** - Light enters the light through the pupil (the black hole in the centre of the eye).

**Retina** - Contains millions of photoreceptors (cells that convert light into electrical impulses to the brain).

**Sclera** - The white tough outer coating of the eye.

**Opaque** - objects which do not allow light to pass through.

**Periscope** - An instrument used to look at things from a hidden position.

**Prism** - A plastic or glass prism can be used to split light into the colours of the spectrum.

**Reflection** - when light rays bounce off an object.

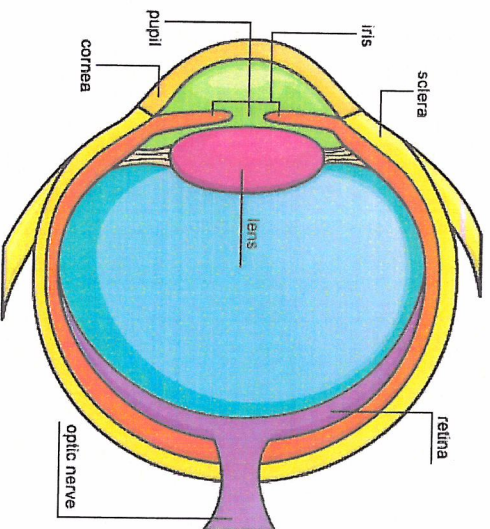
**Refraction** - The bending of light as it moves from one substance to another.

**Spectrum** - The different colours that white light is made from.

**Translucent** - objects which allow some light through, e.g. plastic.

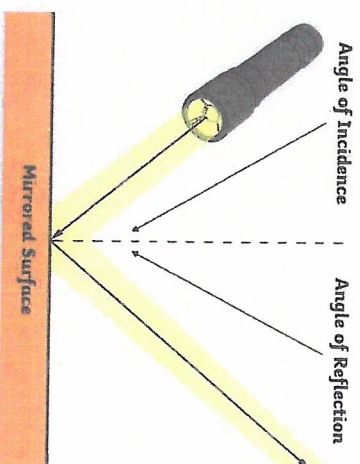
**Transparent** - objects that let virtually all light rays through, e.g. glass.

DIAGRAM OF THE EYE



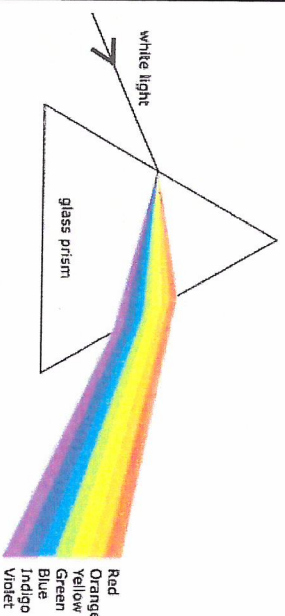
We need to understand the structure of our eyes to understand how we see light.

### Equal Angles



**Reflection:** The angle the light hits the reflective surface is equal to the angle of the reflected light.

### The spectrum of colours in white light:



#### Unlock more knowledge by visiting:

<http://www.childrensuniversity.manchester.ac.uk/learning-activities/science/the-brain-and-senses/how-the-eye-works/>

<https://www.dkfindow.com/uk/science/light/>