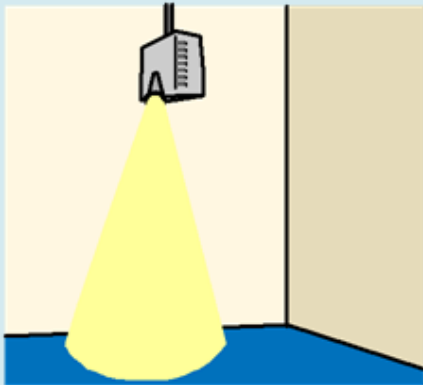# Examples of lens

glasses

microscopes
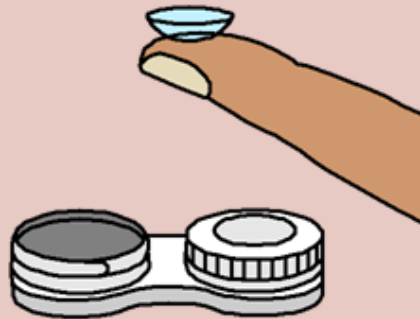
telescopes

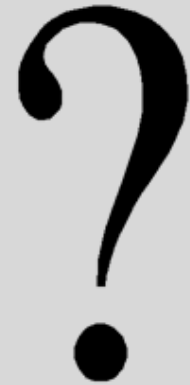cameras

projectors

contact lenses

webcams

anything else

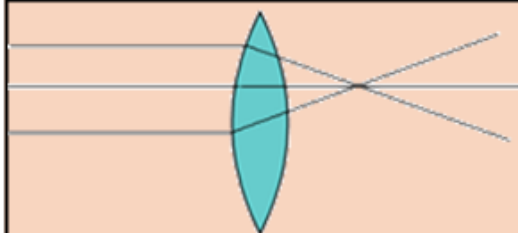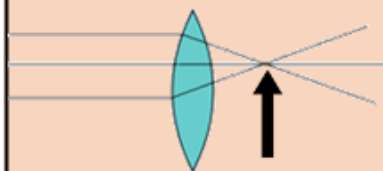# Different types of lenses

convex lens

A convex lens is thick in the middle

A convex lens is thin at the edges

A convex lens causes the light to converge

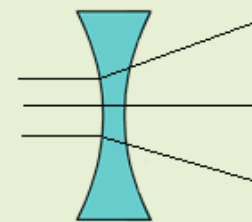The point where the rays meet is called the focal point or focus.

concave lens

A concave lens is thin in the middle
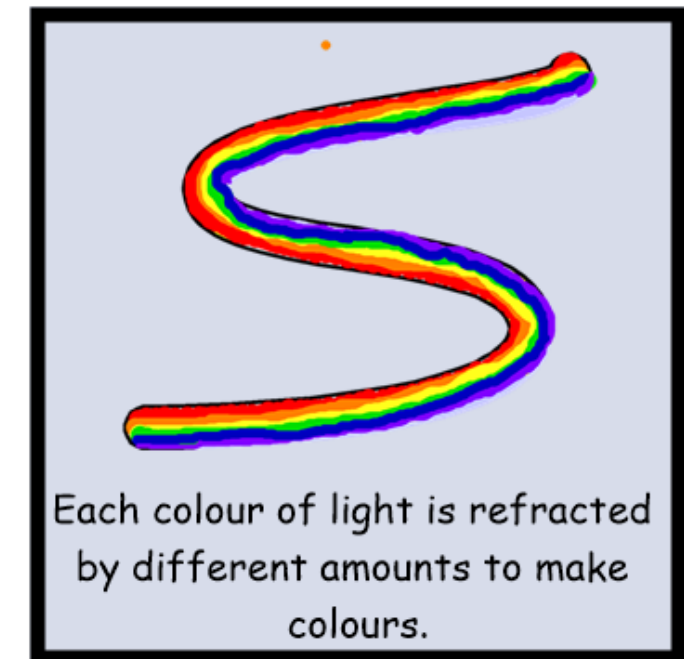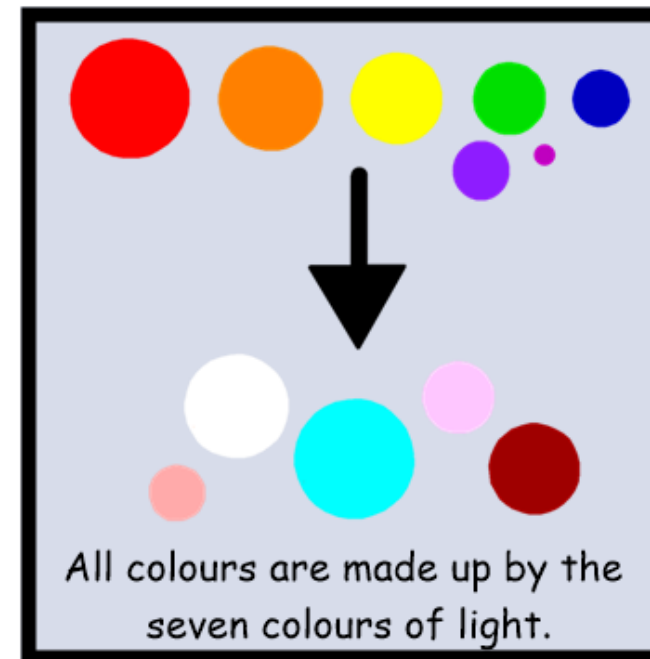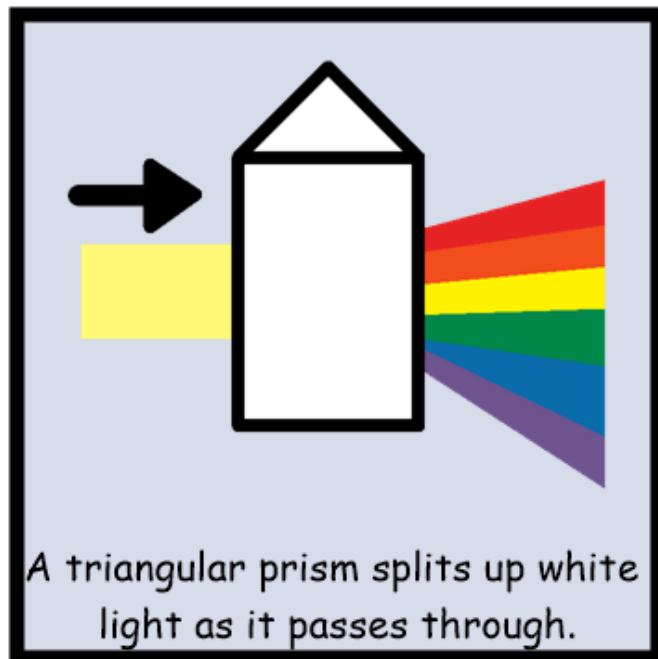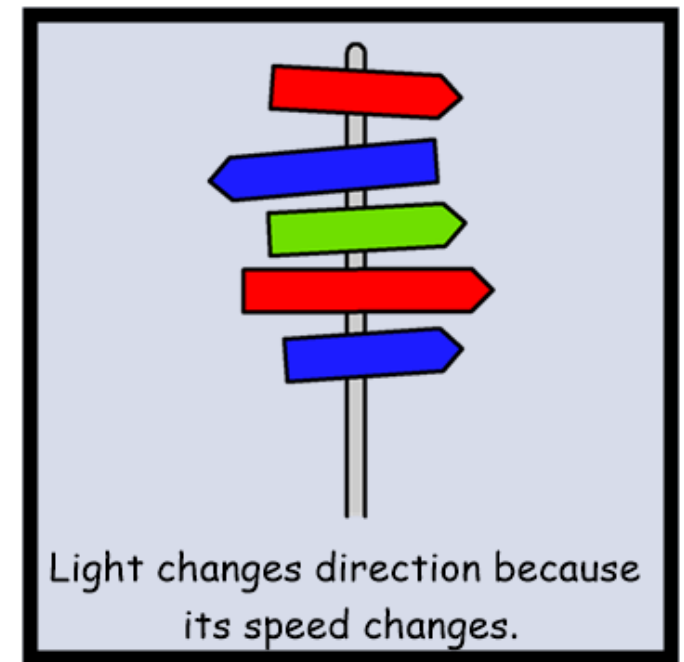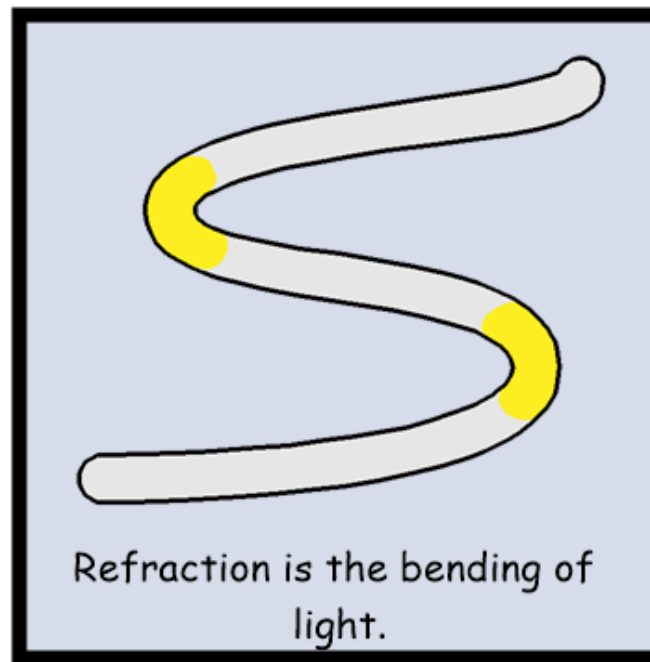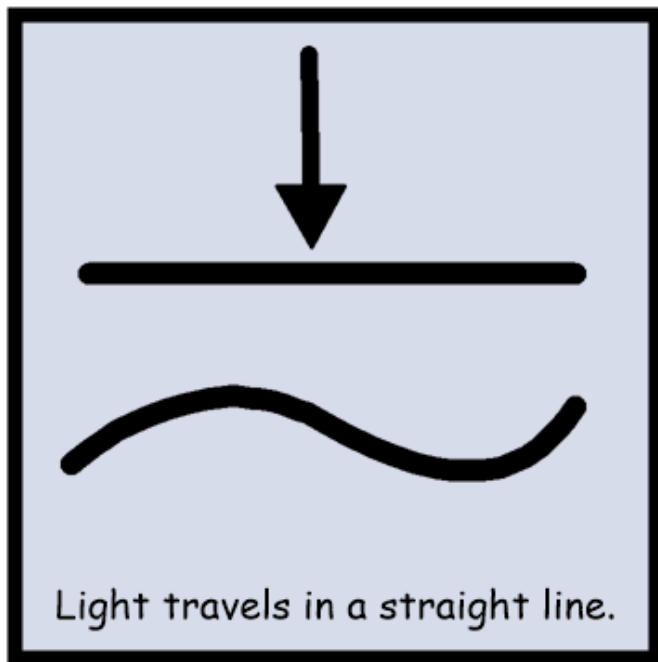
A concave lens is thick at the edges

A concave lens causes the light rays to move further apart.

The more curved a lens is the greater the change in the direction of the light rays.

Light travels in a straight line.

Refraction is the bending of light.

Light changes direction because its speed changes.

A triangular prism splits up white light as it passes through.

All colours are made up by the seven colours of light.

Each colour of light is refracted by different amounts to make colours.
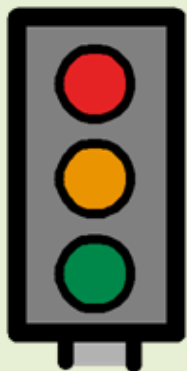
Examples of filters
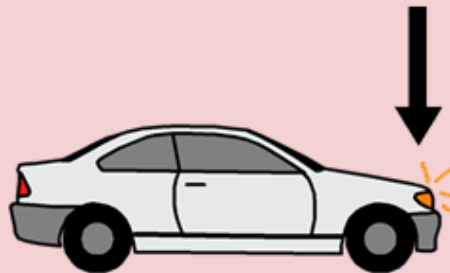
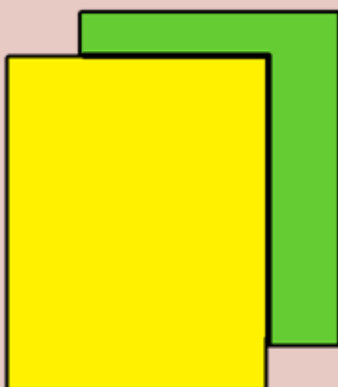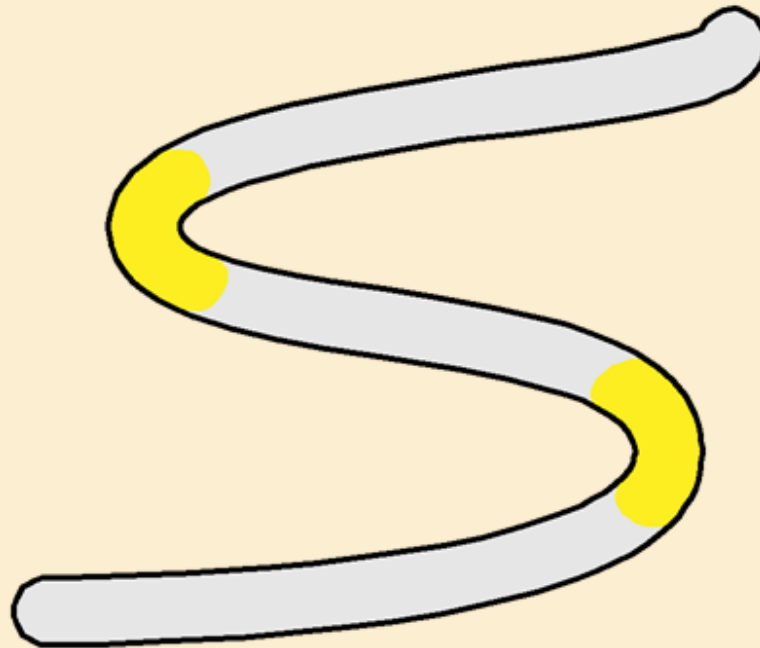|			
theatre lights	traffic light	indicators	car lights
brake lights	overlays	sun glasses	anything else

A rainbow is created by

sunlight

being refracted through

water droplets