

Light

What is Light?

Light is everywhere. It is produced by luminous objects, such as fire, light bulbs and the Sun. Unlike sound, light does not require matter through which to travel and can travel through a vacuum such as space. Light travels faster than anything scientists have yet to discover at 300 million m/s.

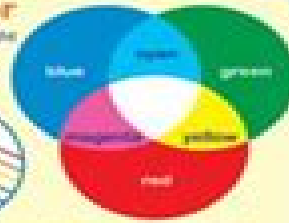
Light is an **electromagnetic wave** that is made of vibrating electric and magnetic fields which are at right angles to each other. The light that we can see is called **visible light**, but there is also light that we cannot see, including **ultraviolet light** and **infrared light**.

Visible light makes up just a small part of the electromagnetic spectrum but it too can be broken up into different wavelengths. When passed through a glass prism, an ordinary light beam **refracts** into the many different colors or wavelengths of light.



Light and Color

The three **primary colors** of light are red, green and blue. The combination of these primary colors produces **white light**.



The **color** of an object is determined by the **wavelengths** of light that reach our eyes. A red colored object appears red because only red light is reflected while the other colors of light are absorbed.

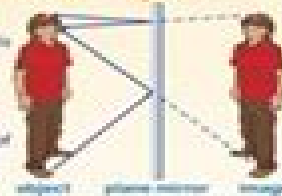
Objects appear black because they absorb all the colors of light, while white objects appear white because they reflect all the colors of light.



Reflection of Light

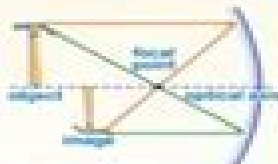
Plane Mirrors

Light that bounces off surfaces is called **reflection**. Because mirrors reflect light evenly we can see an image in them. A mirror with a flat surface is called a **plane mirror**. It is usually made from a sheet of flat glass, with a thin coating of aluminum or silver on the back to reflect the light.



Concave Mirrors

A mirror with a surface that curves inward is called a **concave mirror**. The type of image formed by a concave mirror depends on the **optical axis**, **focal point**, and **focal length** of the mirror.



Convex Mirrors

A mirror with a surface that curves outward is called a **convex mirror**. The image formed by a convex mirror is right side up but smaller than the original.



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Refraction of Light

Refraction

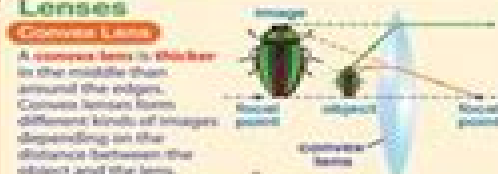
Although light normally travels in straight lines, it can bend at the boundary between two materials with different densities. This is called **refraction**.



Lenses

Convex Lenses

A **convex lens** is thicker in the middle than around the edges. Convex lenses form different kinds of images depending on the distance between the object and the lens.



Concave Lenses

A **concave lens** is thinner in the middle than around the edges. The image formed by a concave lens is virtual and smaller than the original.



Skills Concept Review Sound And Light

Sebastian Brünink



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