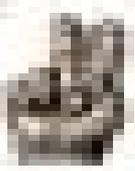


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Light

Light as a Wave

Light exhibits wave-like behavior. Light exhibits diffraction and interference. Speed of light in vacuum is constant. Light travels in straight lines.



Light as a Particle

Light consists of photons. Photons have energy. Photons have momentum. Photons travel in straight lines.

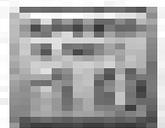


Light as a Ray

Light travels in straight lines. Light rays are used to describe reflection and refraction. Light rays are used to describe the formation of images.

Speed of Light in Different Media

Speed of light in vacuum is 3×10^8 m/s. Speed of light in air is slightly less than in vacuum. Speed of light in water is less than in air. Speed of light in glass is less than in water.



Dispersion of Light

White light is composed of different colors. Different colors have different wavelengths. Different colors have different frequencies.

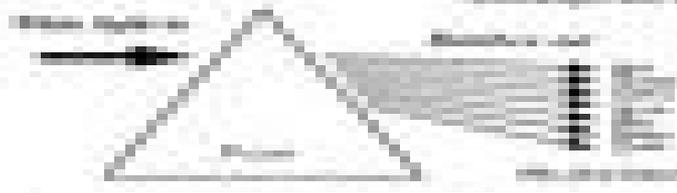


Dispersion of light is the splitting of white light into its constituent colors. Dispersion of light is caused by the change in the speed of light in different media. Dispersion of light is used in many applications.

The dispersion of light is used in many applications. Dispersion of light is used in many applications.

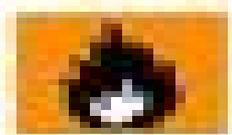
Total Internal Reflection

Total internal reflection occurs when light travels from a denser medium to a rarer medium. Total internal reflection occurs when the angle of incidence is greater than the critical angle.



Total internal reflection is used in many applications. Total internal reflection is used in many applications.

Applications of Light



Light is used in many applications. Light is used in many applications. Light is used in many applications.

Light is used in many applications. Light is used in many applications.

Light Pollution

Light pollution is the excessive or inappropriate use of artificial light. Light pollution is a growing problem. Light pollution is a growing problem.

Definition	Cause	Effect	Solution
<p>Light Pollution - Excessive or inappropriate use of artificial light.</p> <p>Light Pollution - Excessive or inappropriate use of artificial light.</p> <p>Light Pollution - Excessive or inappropriate use of artificial light.</p> <p>Light Pollution - Excessive or inappropriate use of artificial light.</p>	<p>Light Pollution - Excessive or inappropriate use of artificial light.</p> <p>Light Pollution - Excessive or inappropriate use of artificial light.</p> <p>Light Pollution - Excessive or inappropriate use of artificial light.</p> <p>Light Pollution - Excessive or inappropriate use of artificial light.</p>	<p>Light Pollution - Excessive or inappropriate use of artificial light.</p> <p>Light Pollution - Excessive or inappropriate use of artificial light.</p> <p>Light Pollution - Excessive or inappropriate use of artificial light.</p> <p>Light Pollution - Excessive or inappropriate use of artificial light.</p>	<p>Light Pollution - Excessive or inappropriate use of artificial light.</p> <p>Light Pollution - Excessive or inappropriate use of artificial light.</p> <p>Light Pollution - Excessive or inappropriate use of artificial light.</p> <p>Light Pollution - Excessive or inappropriate use of artificial light.</p>

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