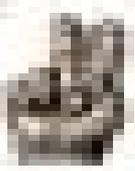


Name: _____
 Date: _____

Light

Light as a Wave

Light exhibits wave-like behavior. Light exhibits diffraction, interference, polarization, reflection, refraction, dispersion, and scattering.



Light as a Particle

Light exhibits particle-like behavior. Light exhibits photoelectric effect, Compton effect, and pair production.

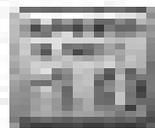


Light as Dual

The electromagnetic spectrum consists of radio waves, microwaves, infrared, visible light, ultraviolet, X-rays, and gamma rays. Position of light in EM spectrum.

Speed of Light in Different Media

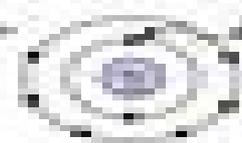
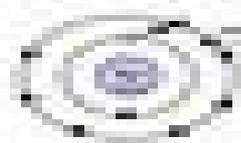
Speed of light is maximum in vacuum and minimum in denser medium. Light travels faster in air than in water.



Light travels faster in air than in water. The speed of light is higher in rarer medium and lower in denser medium.

Composition of White Light

White light is composed of seven colors. Dispersion of white light into its constituent colors.



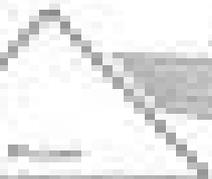
Dispersion of white light into its constituent colors. Dispersion of white light into its constituent colors. Dispersion of white light into its constituent colors.

The dispersion of white light into its constituent colors. Dispersion of white light into its constituent colors.

Refraction of Light

Refraction of light is the bending of light as it passes from one medium to another. Refraction of light is the bending of light as it passes from one medium to another.

Incident ray



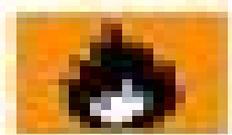
Refracted ray



Refracted ray. Refraction of light is the bending of light as it passes from one medium to another.

Refractive index of a medium is the ratio of the speed of light in vacuum to the speed of light in the medium.

Dispersion of White Light



Dispersion of white light into its constituent colors. Dispersion of white light into its constituent colors.

Dispersion of white light into its constituent colors. Dispersion of white light into its constituent colors.

Light Spectrum

The electromagnetic spectrum consists of radio waves, microwaves, infrared, visible light, ultraviolet, X-rays, and gamma rays.

Radio waves	Microwaves	Infrared	Visible light	Ultraviolet	X-rays	Gamma rays
-------------	------------	----------	---------------	-------------	--------	------------

Radio waves: Long wavelength, low frequency. Used for communication.



Gamma rays: Short wavelength, high frequency. Used for cancer treatment.

Radio waves: Long wavelength, low frequency. Used for communication.

Microwaves: Used for cooking and communication.

Infrared: Used for heating and communication.

Visible light: The spectrum of colors we see.

Ultraviolet: Used for tanning and sterilization.

X-rays: Used for medical imaging and cancer treatment.

Gamma rays: Used for cancer treatment and sterilization.

Radio waves: Long wavelength, low frequency. Used for communication.

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Brendan G. Carr



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