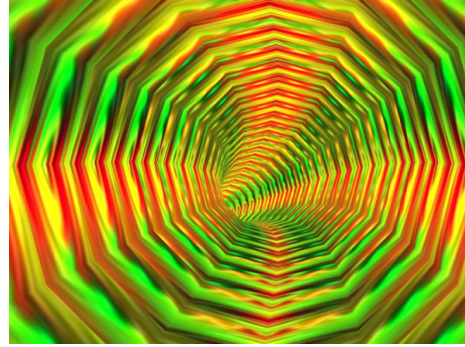


Light



May 12-12:11 PM



May 12-12:12 PM

Chapter 27: Light

Question: Particle or wave?

Newton - Particles

Huygens - Wave

Einstein - Particles (photons)

Apr 26-6:17 PM

Now:

Light has a dual nature, sometimes it acts like a particle and sometimes it acts like a wave.

Apr 26-6:17 PM

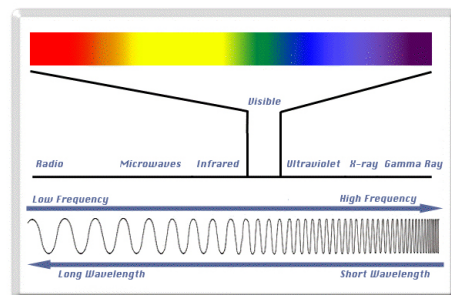
Speed of Light = 3.00×10^8 m/s

Definition:

Light travels exactly 2.99792458×10^8 m/s

May 11-7:34 AM

The Electromagnetic Spectrum



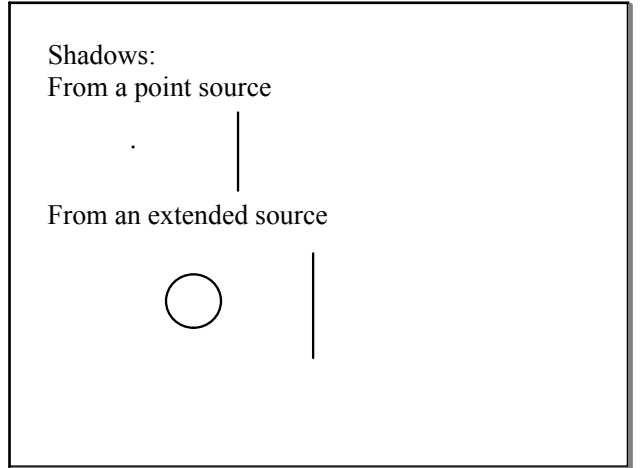
May 11-7:29 AM

Substances may be

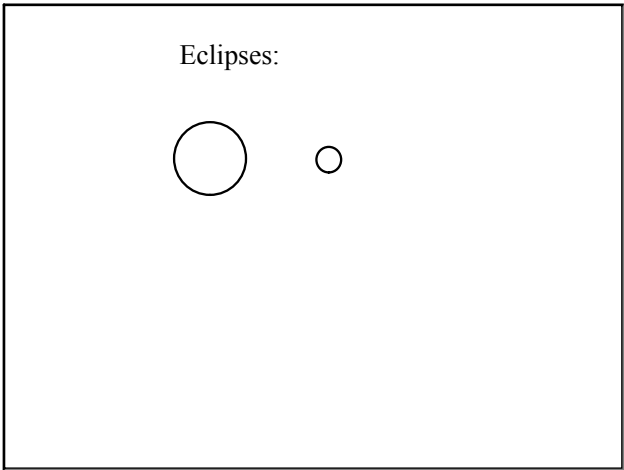
- Transparent
- Translucent
- Opaque

Light makes atoms vibrate and they pass the vibration along.

May 11-7:36 AM



May 11-7:38 AM



May 11-7:40 AM

Polarization

May 11-7:45 AM