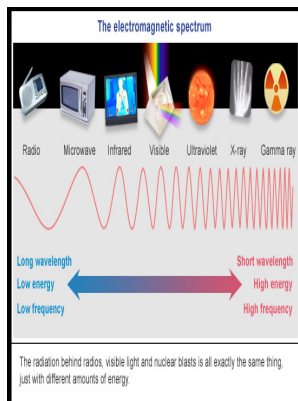


Light waves and their uses.

Chicago U.P - How do astronomers use light to study stars and planets? > Ask an Expert (ABC Science)



Description: -

-Light waves and their uses.

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Phoenix science seriesLight waves and their uses.

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Visible Light

They are produced in different processes and are detected in different ways, but they are not fundamentally different.

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That changed in 1801 when Thomas Young, an English physician and physicist, designed and ran one of the most famous experiments in the history of science.

Light and Sound Waves

Consider an emergency vehicle in motion, sounding its siren. Visible: Our eyes detect visible.

Light

As mentioned earlier, the speed of light usually of light in a vacuum is used in many areas of physics. Photoelectric materials emit electrons when they absorb light of a high-enough frequency. For example, red light is different from blue light because red light has a lower frequency.

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The electric current makes a magnetic field which causes the compass needle to turn. For these color magic demonstrations, write down your initial observations, your predications about what you think will happen, and your final observations. If you are inside, your mobile phone can still get data from a cell tower since these radio waves pass through most walls.

Visible Light

You know more about the electromagnetic spectrum than you may think. For example, a sound wave travels through the medium of air, and the

disturbance is a small displacement of air molecules—individual molecules oscillate back and forth as the wave passes. The wavelength λ of the wave is the physical separation between successive crests.

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