

WEBQUEST: Light and the Electromagnetic Spectrum via NASA.gov

We have learned waves transmit energy by two means, mechanical (such as the wind and slinky) and electromagnetic (light). You will need access to the Internet in order to complete the questions/activities below. Text in blue means its hot text and is actually an active link to the Internet. Clicking on the colored text will take you to the appropriate site.

Start your webquest by clicking on the hyperlink [Introduction to EMS](#). Take a look at the picture of the Electromagnetic Spectrum and then click on the tab at the right (or hot text at the bottom) of the page [Anatomy of an Electromagnetic Wave]

1. Waves we cannot actually see (unlike ripples) and those NOT needing a medium to travel within belong to this category of waves? _____
2. Waves we cannot actually see (unlike ripples) and those needing a medium to travel within belong to this category of waves? _____
3. Why cannot sound travel through outer space?
4. How do astronauts overcome this obstacle when communicating in space?
5. Who is Heinrich Hertz and what did he discover? (be brief)



6. From the picture above, how do radio, television, light, and X-rays differ from each other since all are a form of light wave?
7. Which wave type has the longest wavelength in the electromagnetic spectrum? _____ the shortest? _____

Answers Electromagnetic Spectrum And Light Webquest Answers

Scott Benjamin Gracie



Answers Electromagnetic Spectrum And Light Webquest Answers:

Light, Dark, and the Electromagnetic Spectrum Scott Benjamin Gracie, 2022 **Patterns of Light** Steven Beeson, James W. Mayer, 2007-10-23 Light is all around us Vision is our dominant sense and we are richly rewarded with a palette of colors from red to violet Our eyes do not detect the low energy long wavelength infrared IR radiation but we know it exists from discussions of war applications and televised images of guided weapons targets Our eyes do not detect the higher energy above visible light energies and shorter than visible wavelength ultraviolet radiation and yet we know it is there from the sunburn we receive in Arizona We also know that window glass can block ultraviolet rays so we don't get a burn while driving with the windows rolled up We know about radio waves from the little boxes that talk to us and x rays from the dentist office These waves and rays belong to the same family of light often called photons from the Greek photo light that describes the spectra of electromagnetic radiation over 10 orders of magnitude from very low energy radio waves to very high energy x rays and gamma rays **Light, Dark, and the Electromagnetic Spectrum** Scott Benjamin Gracie, 2022-04-12 Since the dawn of time electromagnetic energy has permeated through the universe surrounding and interacting with everything it touches illuminating destroying and giving life The colourful section of the electromagnetic spectrum we see in the form of visible light rainbows and other phenomena is tiny when compared to its vast entirety Using many parts of the electromagnetic spectrum have become common everyday occurrence for the majority of people on Earth as it has been integrated into our lives in ways that we don't even think twice about it This book illuminates many parts of the electromagnetic spectrum and its effects the endless ways we have harnessed its energy and how we interact and live with its influence less *Exploring the Spectrum* Philip S. Callahan, 1994 This book attempts to explain not only the visible light spectrum but also the invisible high energy nuclear and low energy infrared and radio portions of the electromagnetic spectrum Part one is about the physics of the spectrum part two about the spectrum of life Many pictures short stories tables and figures complete the book

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