

Electromagnetic Spectrum Webquest- 2015

Modified from PhysicsQuests by Dolores Gende

In this webquest you will learn about phenomena and applications of the physics of light. Visit the links for each section and **neatly type your answers** on a Word document or Google document. Type the webquest title and your name, class period and date at the top of the document. Use your own words....do not cut and paste! Print your document and tape it into your lab NB.

Start by opening the EM Spectrum Webquest folder on the PS webpage in **Unit 6: Waves**.

The "electromagnetic spectrum" is a term used to describe the entire range of light radiation, from gamma rays to radio waves. We tend to think of optical radiation as "light," but the rainbow of colors that make up optical or "visible" light is just a tiny part of a much broader range of light energy.

Go to the 1st link in the EM Spectrum Webquest folder. Answer the following questions, then complete the virtual lab activity.

http://www.glencoe.com/sites/common_assets/science/virtual_labs/CT05/CT05.html

1. How are electromagnetic waves produced?
2. What is radiation?
3. What is the speed of all EM waves? How does this compare to speed of sound?
4. How do EM waves differ from each other?
5. Define and give the units for frequency.
6. How are wavelength and frequency related?
7. What determines the energy of the EM waves? Which types of EM waves have the least and most energy?

Use link 2 and link 3 for the following questions.

<http://www.pbs.org/wgbh/nova/physics/electromagnetic-spectrum.html>

<http://missionscience.nasa.gov/ems/index.html>

8. Make a table with four columns that include the following information:
 - the names of the seven types of radiation that make up the Electromagnetic Spectrum
 - Main characteristics of each type of radiation
 - wavelength of each type of radiation
 - frequency of each type of radiation
9. Name one manufactured device or natural phenomenon that emits electromagnetic radiation in each of the following wavelengths: radio, microwave, infrared, visible light, ultraviolet, X-ray, and gamma ray.
10. Which type(s) of electromagnetic radiation do human bodies emit? Which type(s) can our senses detect?

Electromagnet Webquest Answer Key

Victor M. Corman

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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