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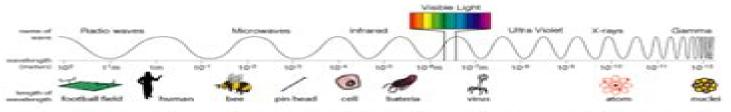
WEBQUEST: Light and the Electromagnetic Spectrum via NASA.gov

Start your webquest by clicking on the hyperlink <u>Introduction to EMS</u>. http://missionscience.nasa.gov/ems/01_intro.html

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]

- 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. From the picture above, how do radio, television, light, and X-rays differ from each other since all are a form of light wave?

5. Which wave type has the longest wavelength in the electromagnetic spectrum? _____ the shortest?____

At the right side of the webpage click on [RADIO WAVES]

- Regarding size radio waves have the ______ wavelength compared to the other types of EMS.
- 2. What types of technology utilize radio waves?
- Antenna size of TVs and cell phones is related to the size of the ______ used by the technology.
- 4. Why do radio telescopes have to be so large compared to optical telescopes?
- 5. One of the largest radio telescopes arrays is located where?

MICROWAVES:

- 1. The range of wavelength for microwaves measures from _____ cm to _____ cm.
- Microwave towers, looking like they have drums attached to them transmit these types of information.

and ____

 Microwave radar is more detailed than radio wave radar because the wavelength of microwaves is relative to radio's.

<u>Electromagnetic Spectrum And Telescope Webquest</u> <u>Answer Key</u>

Joacim Rocklöv

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web the volume of 1 00 mol 1 00 mol of any gas at stp standard temperature 273 15 k and pressure 1 atm is measured to be 22 414l 22 414 l we can substitute 101 325kpa 101 325 kpa for pressure 22 414 l 22 414 l for volume and 273 15 k 273 15 k for temperature into the ideal gas equation and solve for r r

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