

WEBQUEST: Light and the Electromagnetic Spectrum via NASA.gov

Start your webquest by clicking on the hyperlink [Introduction to EMS](http://missionscience.nasa.gov/ems/01_intro.html).

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]

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. 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]

1. Regarding size radio waves have the _____ wavelength compared to the other types of EMS.

2. What types of technology utilize radio waves?

3. 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.

2. Microwave towers, looking like they have drums attached to them transmit these types of information.

_____ and _____

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

Electromagnetic Spectrum And Telescope Webquest

Answer Key

Joacim Rocklöv



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web he concluded that at a constant pressure the volume of the gas would expand at a particular rate for each degree of temperature rise that being 1 267 per degree in 1874 victor regnault obtained better experimental results showing this

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october 8 2014 summary the purpose of this experiment is to be able to understand the relationship between the pressure
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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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web chemists sometimes make comparisons against a standard temperature and pressure stp for reporting properties of
gases 273 15 k and 1 atm 101 325 kpa 1 at stp one mole of an ideal gas has a volume of about 22 4 l this is referred to as the
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web figure pageindex 10 since the number of moles in a given volume of gas varies with pressure and temperature changes
chemists use standard temperature and pressure 273 15 k and 1 atm or 101 325 kpa to report properties of gases

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introduction the ideal gas law is a commonly used formula in chemistry it relates pressure temperature and volume this
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