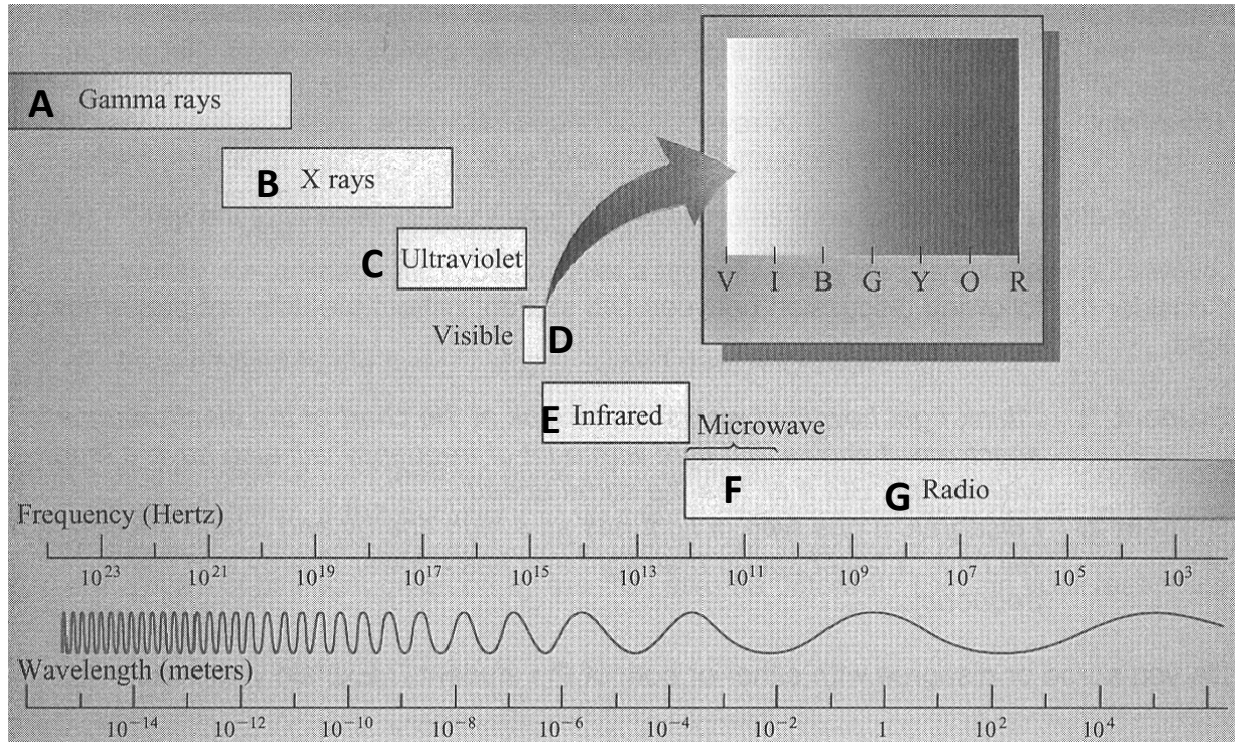


Astronomy Ranking Task: The Electromagnetic (EM) Spectrum

Exercise #1

Description: The figure below shows the electromagnetic spectrum. Regions of the spectrum are labeled, as are wavelengths and frequencies.



A. Ranking instructions: Rank the wavelengths of the regions of the EM spectrum.

Ranking Order: Longest 1 _____ 2 _____ 3 _____ 4 _____ 5 _____ 6 _____ 7 _____ Shortest

Or, all regions of the EM spectrum have the same wavelength. _____ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

B. Ranking instructions: Rank the frequencies of the regions of the EM spectrum.

Ranking Order: Highest 1 _____ 2 _____ 3 _____ 4 _____ 5 _____ 6 _____ 7 _____ Lowest

Or, all regions of the EM spectrum have the same frequency. _____ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

C. Ranking instructions: Rank the energies of the regions of the EM spectrum.

Ranking Order: Highest 1 _____ 2 _____ 3 _____ 4 _____ 5 _____ 6 _____ 7 _____ Lowest

Or, all regions of the EM spectrum have the same energy. _____ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

D. Ranking instructions: Rank the speeds of the regions of the EM spectrum.

Ranking Order: Fastest 1 _____ 2 _____ 3 _____ 4 _____ 5 _____ 6 _____ 7 _____ Slowest

Or, all regions of the EM spectrum travel at the same speed. _____ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:
