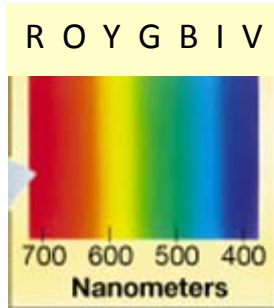


Astronomy Ranking Task: The Electromagnetic (EM) Spectrum

Exercise #2

Description: The figure below shows the visible portion of the electromagnetic spectrum with wavelengths indicated. The colors red, orange, yellow, green, blue, indigo, and violet are labeled as *ROY G BIV*.



A. Ranking instructions: Rank the wavelengths of the colors in the visible spectrum.

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

Or, all colors of the visible 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 colors in the visible spectrum.

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

Or, all colors of the visible 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 colors in the visible spectrum.

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

Or, all colors of the visible 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 colors of the visible spectrum.

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

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

Carefully explain your reasoning for ranking this way:
