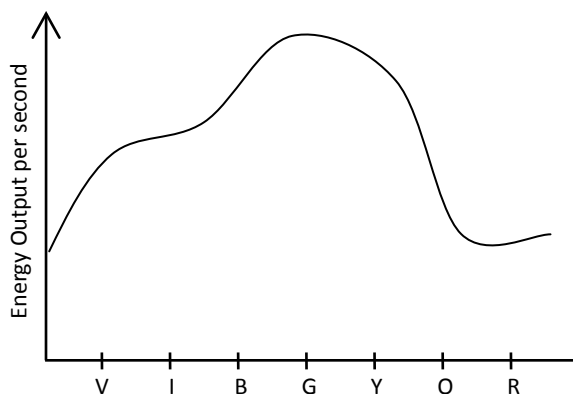


Astronomy Ranking Task: Blackbody Radiation

Exercise #1

Description: The graph below shows the amount of energy given off by an object each second versus the wavelengths of light in the visible spectrum. The colors of the visible spectrum are labeled with the letters *ROY G BIV*.



A. Ranking instructions: Rank the energy output per second of the colors in the visible spectrum.

Ranking Order: Most 1 _____ 2 _____ 3 _____ 4 _____ 5 _____ 6 _____ 7 _____ Least

Or, all colors of the visible spectrum have the same output per second. _____ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

B. What color would this object appear? Explain your reasoning.