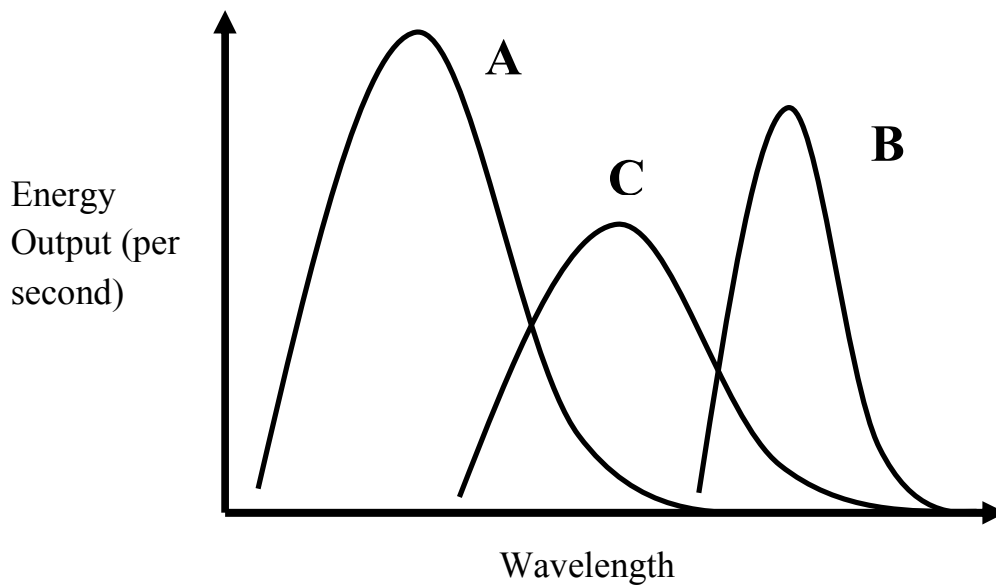


Astronomy Ranking Task: Blackbody emission

Exercise #1

Description: Consider this graph of three different stars spectral curves. Assume that all three stars can be observed in the visible part of the spectrum.



A. Ranking Instructions: Rank the luminosity of the stars (from highest to lowest) of the stars in the graph..

Ranking Order: Highest 1 ___ 2 ___ 3 ___ Lowest

Or, all the stars have the same luminosity . ___ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

B. Ranking Instructions: Rank the visible color (from most red to most blue) of each star:

Ranking Order: Most Red 1 ___ 2 ___ 3 ___ Most Blue

Or, all the color of each star is the same. ___ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

C. Ranking Instructions: Rank the temperature (from coldest to hottest) of each star:

Ranking Order: Coldest 1 ___ 2 ___ 3 ___ Hottest

Or, the temperatures of the stars are the same: ___ (indicate with a check mark)

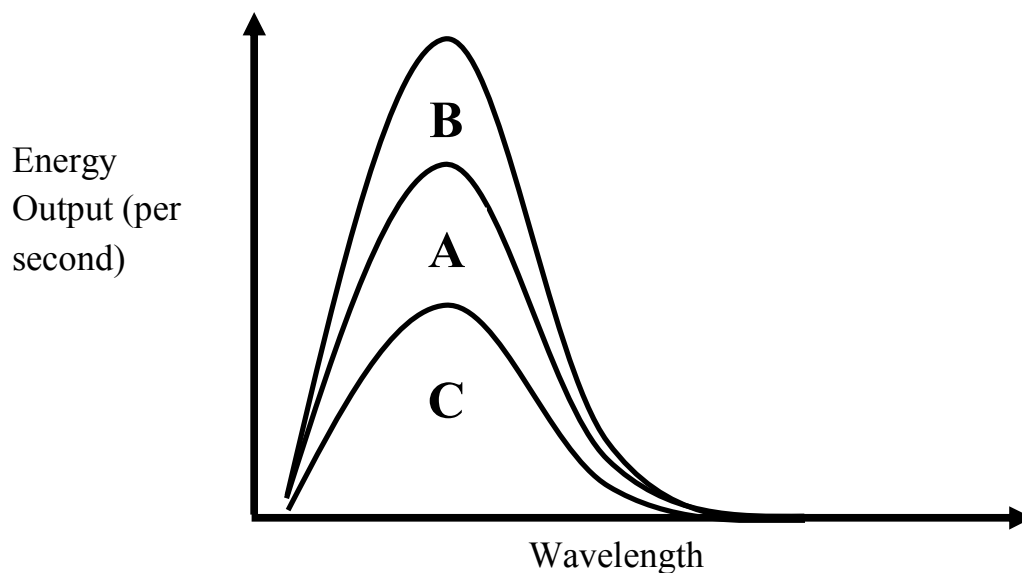
Carefully explain your reasoning for ranking this way:

Astronomy Ranking Task:

Blackbody emission

Exercise #2

Description: Consider this graph of three different stars spectral curves. Assume that all three stars can be observed in the visible part of the spectrum.



A. Ranking Instructions: Rank the luminosity of the stars (from highest to lowest) of the stars in the graph..

Ranking Order: Highest 1___ 2___ 3___ Lowest

Or, all the stars have the same luminosity .___ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

B. Ranking Instructions: Rank the visible color (from most red to most blue) of each star:

Ranking Order: Most Red 1___ 2___ 3___ Most Blue

Or, all the color of each star is the same. ___ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

C. Ranking Instructions: Rank the temperature (from coldest to hottest) of each star:

Ranking Order: Coldest 1___ 2___ 3___ Hottest

Or, the temperatures of the stars are the same: ___ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:
