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:

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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:
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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:
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**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:

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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:

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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:

__________________________________________________________________
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