

GROUPING STARS DISCUSSION QUESTIONS

*Please answer the following questions using FCS.
(Do NOT copy the question, but DO make sure the question is restated in the answer. Use the sentence starters provided.)*

1. Describe at least three patterns or groups of stars you see in the HR diagram.

Three patterns we see are:

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2. What is the relationship between luminosity in the main sequence stars?

In main sequence stars, as the temperature _____ the luminosity _____. [increases / decreases]

3. There are more stars that are _____ and _____ than those that are _____ and _____. [bright / cool / dim / hot]

4. Explain your answer to question #3. (Read CPO pg. 344 if you need help.)

This happens because ...

5. A) Explain why there are more main sequence stars than others.

There are more main sequence stars than the others because ...

B) Explain why there are more red stars than blue stars. (Read CPO pg. 344 for the explanation)

There are more red stars than blue stars because ...

6. How are stars like glow sticks?

Stars are like glow sticks because ...