

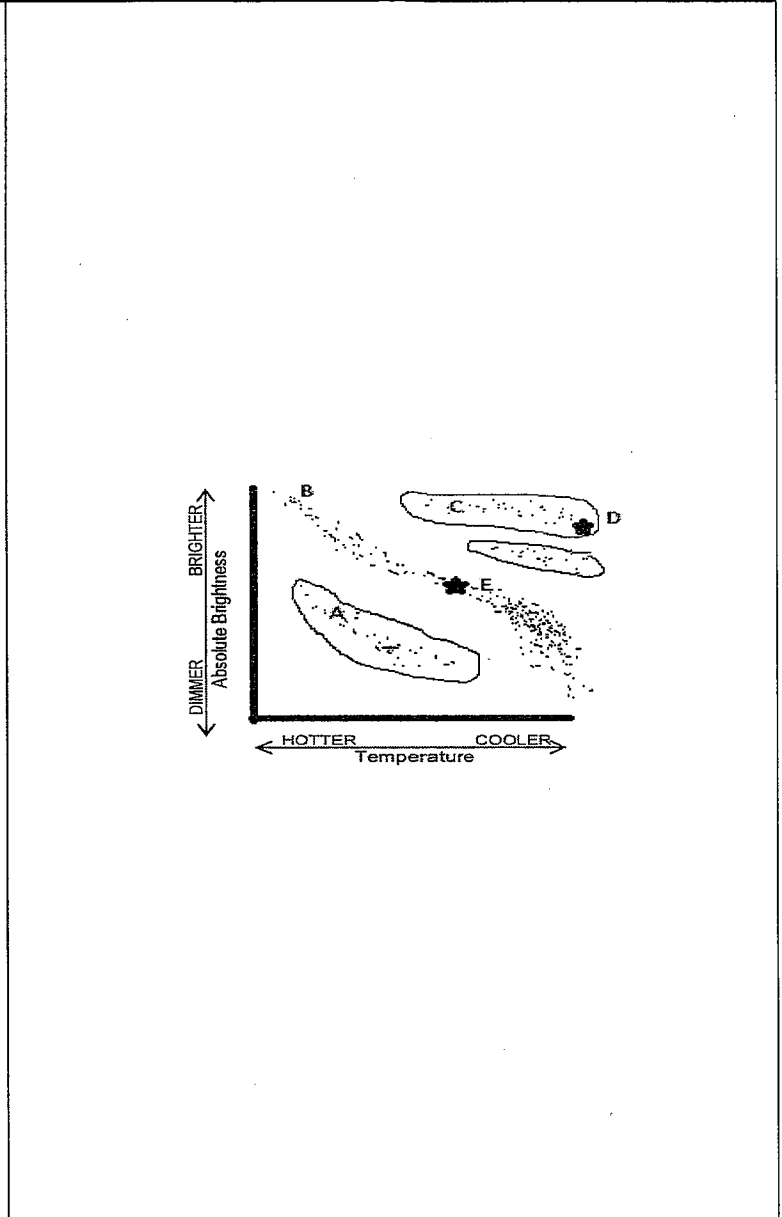
## Notes Outline

<b>Topic:</b> Star Characteristics	Name _____ Date _____ Period _____
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**Learning Goals:** Explain how stars are classified.  
Explain the H-R diagram, and explain how astronomers use it.

**Vocabulary:**  
 apparent brightness (magnitude)  
 • What does it depend on?  
 absolute brightness (luminosity)  
 • What do astronomers use to calculate it?

**Questions:**  
 1. What characteristics are used to classify stars?  
 2. What is the H-R diagram?  
 3. Classify the type of stars and color the sections on the HR diagram.  
 A \_\_\_\_\_  
 B \_\_\_\_\_  
 C \_\_\_\_\_  
 \*what stars are at D & E  
 D \_\_\_\_\_  
 E \_\_\_\_\_  
 4. Where does a star spend most of its life?  
*(These stars form a band that goes from the top left to the bottom right of the H-R diagram.)*  
 5. List the colors of stars from hottest to coolest.  
 a. The hottest star is \_\_\_\_\_  
 b. The coldest star is \_\_\_\_\_  
 6. Our sun could best be described as a \_\_\_\_\_ star.  
 a. Name the color, class, and temperature of the sun.



**Summary:** Using the H-R diagram, explain how stars are classified (what is the general “pattern” or relationship between the variables). *(Answer in complete sentences 20-30 words - should include vocabulary, main ideas and should show you understand the learning goals.)*