

Hertzsprung-Russell (HR) Diagram

Name:

Click on the following website. Read the site and answer the following questions.

website: <http://cse.ssl.berkeley.edu/segwayed/lessons/startemp/16.htm>

1. Who plotted the first H-R diagram? When did they plot these diagrams?
2. What does the horizontal scale show?
3. Where are the hottest stars located? Coolest stars?
4. How did scientists standardize the brightness of each star?
5. What is the brightness of the sun on the standardized scale?
6. List four important things to note about the H-R diagram.

Click on: Go to the next section to interpret the H-R Diagram

Interpreting the HR Diagram

Answer the questions on the website and then fill in the data table below.

Star	Temperature	Luminosity
A		
B		
C		
D		

7. Are there any stars that seem out of place? How might you explain them?
8. What other factors might affect the overall brightness?
9. What type of luminosity should a hotter star have compared to a cooler star? Do all stars fit this pattern?
10. What is the name of the large group that stretches across the middle of the diagram?
11. What type of star is our sun?
12. What is the name of stars that are cool but very luminous? Where are they located on the HR diagram?
13. What is the name of stars that are very hot but dim? Where are they located on the HR diagram?