

Name: _____ Date: _____

Student Exploration: H-R Diagram

Gizmo Warm-up

In the early 1900s, astronomers were able to identify many star characteristics such as color, size, temperature, and **luminosity**—or how bright a star is. However, astronomers did not yet understand exactly how these characteristics were related. Using the *H-R Diagram Gizmo™*, you will discover some of these relationships on your own.

Start by moving your cursor over the stars in the **Star collection**. Information about each star is displayed on the right side of the Gizmo. The numbers given for **Luminosity**, **Radius**, and **Mass** are in comparison to the Sun. So, a star with a radius of 2 is twice as large as the Sun.



1. Find Betelgeuse in the **Star collection**. Fill out the chart at right.

2. The Sun has a radius of 695,500 km.

What is the radius of Betelgeuse? _____

Betelgeuse	
Temperature	
Luminosity	
Radius	
Mass	

Activity A:
Color and temperature

Get the Gizmo ready:

- Make sure **Arrange stars** is selected and **Color** is selected on the **Arranged by** menu.



Question: How is the color of a star related to its temperature?

1. **Organize:** Compare the colors of the following stars in the **Star collection**: Aldebaran, Betelgeuse, Sirius B, Spica, the Sun, and Vega. Drag the six stars to position them where you think they would fit on the Gizmo's color scale.

Click **Sort stars** on the Gizmo to check your placements. Mark the location of each star on the scale below. Use abbreviations for the star names. For example, "Al" could represent "Aldebaran" and "Veg" could represent "Vega."



2. **Organize:** On the **Arranged by** menu, select **Temperature**. Based on their given temperatures, plot the stars on the Gizmo scale. Mark each star on the scale below. (Note: °C.) When you are finished, click **Sort stars** to check your placements. Revise your chart if necessary.



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DOWNLOAD Student Exploration: Carbon Cycle Vocabulary: atmosphere, biomass, biosphere, carbon reservoir, carbon sink, fossil fuel, geosphere, greenhouse gas, hydrosphere, lithosphere, photosynthesis Prior Knowledge Questions (Do these BEFORE using the Gizmo.) In the process of photosynthesis, plants take in carbon dioxide (CO₂) from the atmosphere and water (H₂O) from the soil.

Student Exploration: H-R Diagram (ANSWER KEY)

Student Exploration: H-R Diagram (ANSWER KEY) Download Student Exploration: H-R Diagram Vocabulary: giant, H-R diagram, luminosity, main sequence, star, supergiant, white dwarf Prior Knowledge ...

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