

## The H-R Diagram- Stellar Luminosity and Temperature

**Introduction:** Astronomers use two basic properties of stars to classify them. These two properties are luminosity, or brightness, and surface temperature. Astronomers will often use a star's color to measure its temperature. Stars with low temperature produce a reddish light, while stars with high temperature shine with a brilliant blue-white light. Surface temperatures of stars range from 2,000 Kelvin to 50,000 Kelvin. When these surface temperatures are plotted on a graph against luminosity, the stars fall into groups.

**Problem:** To create a Hertzsprung-Russell diagram.

**Procedures:**

1. Plot the stars listed below on the graph paper provided.
2. Draw a circle around each grouping of stars on the graph.
3. Label the following on your graph: **Main Sequence, Red Giants, White Dwarfs, Supergiants.**
4. Circle the dot representing the Sun.

Star	Luminosity (X Sun)	Surface Temperature (X 1000 K)
Orion	10,000	20
Polaris	6	5.9
Antares	1,000	3
Spica	800	25
Vega	40	12
Procyon A	50	6.9
Regulus	1,000	18
Lucille	0.02	4.5
Sirius B	0.01	8
Betelgeuse	20,000	3
Achernar	2,000	24
Aldebaran	100	4
Ceti	0.1	4.5
Sirius A	20	11
Sun	1	5.7
Procyon B	0.004	6.6
Altair	0.01	9
Alpha Centauri	1.6	5.7

# Hr Diagram Graphing Activity Answer Key

**K Payea**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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