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Classification,  
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Diagram. Then  
complete the following  
questions related to  
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information.

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information and HR  
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Classifiution,

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The table below

summarizes the

relationship between

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spectral type,  
temperature, and color  
for ...

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classification. Diagram.  
Then complete the  
following questions

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related to the  
background Question

The table below summarizes the relationship type, temperature, and between spectral color for stars. Note that the surface temperature of the stars in the table increases Star Color Temperature k Spectral Type Betelguese 4,300 Yellow Procyon A Yellow-White Sirius A White Rigel A 11,000 Delta



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#### **Solved: HR Diagram**

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#### **Information Th ...**

Question 15: The HR Diagram is a log-log plot of the solar units equation  $L=R^2T^4$ . Use the boxed equations to argue that isoradius lines on the HR Diagram must be parallel lines. Question 16: Complete the table below. Then add the points to the following

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HR Diagram and use  
them to draw in the  
isoradius lines for 1,  
10, and 100 solar radii.

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ExploreLearning. A  
collection of stars  
visible from Earth can  
be arranged and  
classified based on  
their color,  
temperature,  
luminosity, radius, and  
mass. This can be done  
using one or two-  
dimensional plots,

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including a  
Hertzsprung-Russell  
diagram of luminosity  
vs. temperature.

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NAAP Astronomy Labs -  
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## **Hertzsprung-Russell Diagram Explorer -**

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The NAAP HR Diagram Lab explores the Hertzsprung-Russell diagram and those areas necessary to understand the diagram such as (but not limited to) the different kinds of spectrum, spectral classification, and luminosity class. In short, this module provides a fairly in-depth tutorial in

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reading HR diagrams.

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## **Hertzsprung-Russell Diagram - NAAP**

The fundamental tool for presentation of the diversity of stellar types and for understanding the interrelations between the different kinds of stars is the Hertzsprung-Russell Diagram (abbreviated HR diagram or HRD), a plot of stellar luminosity or absolute

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magnitude versus  
spectral type, stellar  
surface temperature,  
or stellar color.

### **Hertzsprung Russell Diagram The Basics**

These are some  
suggested answers for  
the questions asked on  
the student sheet. Part  
One. What variables  
does the HR Diagram  
compare? Luminosity  
and temperature;  
Describe why it is  
possible to relate the



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temperature of a star to its luminosity, or brightness. Stars that are hotter should be brighter than stars that are cooler.

### **Stars and the Hertzsprung-Russell Diagram Teacher Sheet ...**

One of the best ways to summarize all of these details about how a star or protostar changes with time is to use a Hertzsprung-

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Russell (H-R) diagram.  
Recall from *The Stars: A Celestial Census* that, when looking at an H-R diagram, the temperature (the horizontal axis) is plotted increasing toward the left. As a star goes through the stages of its life, its luminosity and temperature change.

### **21.2 The H-R Diagram and the Study of Stellar**

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## **Evolution ...**

H-R Diagram A

collection of stars visible from Earth can be arranged and classified based on their color, temperature, luminosity, radius, and mass. This can be done using one or two-dimensional plots, including a Hertzsprung-Russell diagram of luminosity vs. temperature. 5

Minute Preview

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## **H-R Diagram Gizmo :**

### **Lesson Info :**

### **Explore Learning**

The H-R Diagram. This project leads students through making an Hertzsprung-Russell (H-R) Diagram, one of the most basic tools of stellar astrophysicists. The H-R diagram project is one of the most challenging projects on SkyServer. Several of the exercises involve

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analyzing large amounts of data; it would be useful if students knew how to enter data into a spreadsheet and have the spreadsheet do some of the calculations for them.

### **H-R Diagram - Teacher's Guide**

Beside that, we also come with more related ideas like gizmo answer key coastal winds and

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The NAAP HR Diagram  
Lab explores the  
Hertzsprung-Russell



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diagram and those areas necessary to understand the diagram such as (but not limited to) the different kinds of spectrum, spectral classification, and luminosity class. In short, this module provides a fairly in-depth tutorial in reading HR diagrams.

Mar 23, 2015, 3:23 PM:  
Karriaunna Scotti

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**Science Scotti**

Exploration Guide: H-R  
Diagram Do you think that taller students tend to weigh more or less than shorter students? You could examine this by plotting the students in your class on a graph, with height on one axis and weight on the other. Each student would be plotted as a point on the graph.

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