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HR Diagram - Student mini-lab Name:

_Jason Rojas____ Background

Information Work through the

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background sections on Spectral Classification, Luminosity, and the Hertzsprung-Russell Diagram. Then complete the following questions related to the background information. Background information and HR diagram Explorer can be found at.

HR_Diagram Sheet - HR Diagram

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Student mini-lab Name Jason ...

HR Diagram - Student Guide Background Information Work through the background sections on Spectral Classification, Luminosity, and the Hertzsprung-Russell Diagram. Then complete the following questions related to the background information Question 1: The table below summarizes the

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relationship between spectral type, temperature, and color for ...

HR Diagram - Student Guide Background Information ...

HR Diagram Student Guide Background Information the work through the background sections on spectral classification. Diagram. Then complete

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the following questions 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 Betelgeuse 4,300 Yellow Procyon A Yellow-White Sirius A White

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Rigel A 11,000 Delta ...

Solved: HR Diagram Student Guide Background 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

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16: Complete the table below. Then add the points to the following HR Diagram and use them to draw in the isoradius lines for 1, 10, and 100 solar radii.

HR Diagram - Student Guide

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Student Guide Background Information
Work through the background sections on Spectral

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H-R Diagram Gizmo : ExploreLearning. A collection of stars visible from Earth can be arranged and classified based on

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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.

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

Hertzsprung-Russell Diagram Explorer - Hertzsprung-Russell ...

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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 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

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temperature; Describe why it is possible to relate the 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

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these details about how a star or protostar changes with time is to use a Hertzsprung-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.

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21.2 The H-R Diagram and the Study of Stellar 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

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Hertzsprung-Russell diagram of luminosity vs. temperature. 5 Minute Preview

H-R Diagram Gizmo : Lesson Info : ExploreLearning

The H-R Diagram. This project leads students through making an Hertzsprung-Russell (H-R) Diagram, one

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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 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.

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H-R Diagram - Teacher's Guide

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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

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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

NAAP Assignments - Science Scotti

Exploration Guide: H-R Diagram Do you think that taller students tend to weigh

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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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