Name

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Date:

04-03-2022

Student Exploration: Star Spectra

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: absorption spectrum, binary star, blueshift, Cepheid variable, emission spectrum, giant star, nebula, redshift, spectrum, star

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. What happens when light goes through a prism?

White light divides into several wavelengths and hues, including red, orange, yellow, and green.

This band of colors is called a spectrum.

A rainbow is an example of a spectrum. What is the sequence of colors in a rainbow?

The absence of light is depicted by the dark line. Red, green, yellow, orange, blue, purple, and black lines are all over the place.

Gizmo Warm-up

The interior of a **star** produces a continuous spectrum of light, like a rainbow. Cooler gases in the outer layers of the star absorb certain wavelengths of light, causing dark lines to appear in the spectrum. The resulting **absorption spectrum** can tell astronomers a great deal about the star.

 On the Star Spectra Gizmo, turn on Show labels. Select star 1 to see its absorption spectrum.
How many lines do you see in the spectrum?

10 lines

2. Drag the Hydrogen spectrum next to the Star spectrum so that the edges line up. Do some of the lines on

the two spectra match up?

Some of them do, but not all of them.

3. Drag the Helium spectrum next to the Star spectrum. Do some lines match?

Helium does match the spectrum of stars.

4. Try out the other available spectra. Do any others have lines that match?

No, nobody else does.

Star Spectra Gizmo Worksheet Answer

RC Schank

Star Spectra Gizmo Worksheet Answer:

F&S Index United States Annual, 1999 **Spectroscopy** Keith Robinson (B.A., Ph.D., F.R.A.S.), 2007 This text explains the physics and physical processes that cause the stellar spectra to be as they are Written specifically for amateur astronomers this book assumes only a basic knowledge of physics but looks in detail at many topics including energy levels in atoms the molecular spectra of red stars and emission lines in nebulae Theory of Stellar Spectra [with Lists of References | 1967 Notes on Stellar Spectra Otto Struve, 1944 Photometric Atlas of Stellar Spectra W. A. Hiltner, Robley C. Williams, 1946 A Display Atlas of Stellar Spectra Bruce Margon, George H. Jacoby, 1986* Comparison of stellar spectra of the third and fourth types George Ellery Hale, 1899 Photometric Atlas of Stellar Photometric Atlas of Stellar Spectra W. A. Hiltner, Robley C. Williams, 1946 Spectra W. A. Hiltner, Robley C. Williams, 1946 Stellar Spectra of Class S ... Paul Willard Merrill,1922 A Display Atlas of Stellar Spectra, 1984 A Display Atlas of **Stellar Spectra** George H. Jacoby, 1984 Model Calculations of Stellar Spectra, 1982 Correspondence Concerning the Classification of Stellar Spectra Frank Schlesinger, 1911

Reviewing Star Spectra Gizmo Worksheet Answer: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Star Spectra Gizmo Worksheet Answer**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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