

Name: _____

Date: _____

Student Exploration: Star Spectra

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? **Light bends and the visible spectrum showing the colors of the rainbow are visible.**

This band of colors is called a **spectrum**.
Red, Orange, Yellow, Green, Blue, Indigo, Violet

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

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.

1. 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**

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? **Yes, 4 of them line up.**
3. Drag the **Helium** spectrum next to the **Star** spectrum. Do some lines match? **Yes they all match.**
4. Try out the other available spectra. Do any others have lines that match? **No, some have some lines matching but not the majority of them.**



Gizmos Star Spectra Answer Key

S Ben Porath

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

Gizmos Star Spectra Answer Key:

Enjoying the Melody of Phrase: An Emotional Symphony within **Gizmos Star Spectra Answer Key**

In a global used by displays and the ceaseless chatter of immediate connection, the melodic elegance and psychological symphony developed by the published term often diminish in to the back ground, eclipsed by the constant noise and disturbances that permeate our lives. However, situated within the pages of **Gizmos Star Spectra Answer Key** a marvelous literary prize overflowing with raw feelings, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, that interesting masterpiece conducts readers on a psychological journey, well unraveling the hidden tunes and profound affect resonating within each carefully constructed phrase. Within the depths of the touching examination, we can discover the book is main harmonies, analyze their enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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