

Name: \_\_\_\_\_

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## 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.**



# Star Spectra Gizmo

**William Albert Hiltner, Robley Cook  
Williams**



## Star Spectra Gizmo:

## Star Spectra Gizmo Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Star Spectra Gizmo**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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