

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? the waves separate from each other ✓
This band of colors is called a **spectrum**.
the visible spectrum

2. A rainbow is an example of a spectrum. What is the sequence of colors in a rainbow?
red orange yellow green blue purple

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 ✓
3. Drag the **Helium** spectrum next to the **Star spectrum**. Do some lines match? YES ✓
4. Try out the other available spectra. Do any others have lines that match? NO ✓
5. Which elements have contributed to the spectrum of star 1? Hydrogen Helium ✓

Note: The elements in a star's spectrum do not necessarily reflect what the star is made of. The absorption spectrum is mostly determined by the surface temperature of the star.

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Star Spectra Gizmo Worksheet Answer Key

Christian G. Meyer

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.

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