

## 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

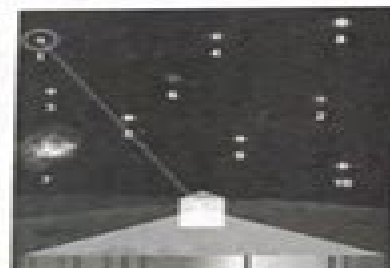
2. A rainbow is an example of a spectrum. What is the sequence of colors in a rainbow?  
red orange yellow green blue purple

### 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

**Liyong Dong**

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

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