

## 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? \_\_\_splits into the colours of the rainbow\_\_\_\_\_

This band of colors is called a **spectrum**.

2. A rainbow is an example of a spectrum. What is the sequence of colors in a rainbow?  
\_\_\_red, orange, yellow, green, blue, indigo, violet,\_\_\_\_\_

### 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. \_\_\_\_\_



# Gizmo Student Exploration Star Spectra Answer Key

**B Lingard**



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