

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.**



Gizmo Star Spectra Answer Key

Xiaolong Qi

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.

Gizmo Star Spectra Answer Key:

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