



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 we can see a rainbow of colors.

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, and 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**

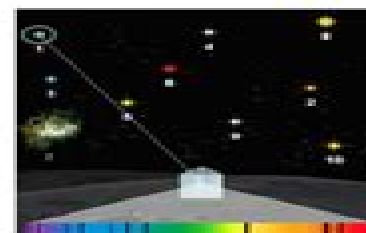
2. Drag the **Hydrogen** spectrum next to the **Star spectrum** so that the edges line up. Do some of the lines on the two spectra match up? **yes**

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. Which elements have contributed to the spectrum of star **1**? **hydrogen and 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.



Star Spectra Gizmo Assessment Answers

Keith Robinson (B.A., Ph.D., F.R.A.S.)

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.

Star Spectra Gizmo Assessment Answers:

Spectroscopy Keith Robinson (B.A., Ph.D., F.R.A.S.), 2007 This text explains the physics and physical processes that cause the stellar spectra to be as they are Written specifically for amateur astronomers this book assumes only a basic knowledge of physics but looks in detail at many topics including energy levels in atoms the molecular spectra of red stars and emission lines in nebulae

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