### 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.)

 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.

A rainbow is an example of a spectrum. What is the sequence of colors in a rainbow?

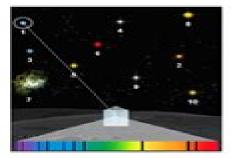
Red, orange, yellow, green, blue, indigo, and violet.

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.

 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



- 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
- 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 Explore Learning Vocabulary**

**James Geach** 

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