### Explorelearning Gizmos'

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.)

 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.

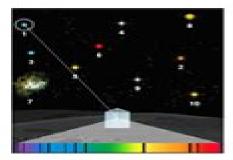
2. A rainbow is an example of a spectrum. What is the sequence of colors in a rainbow?

#### 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.

 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, 4 of them line up.
- Drag the Helium spectrum next to the Star spectrum. Do some lines match? Yes they all match.
- 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.

# **Star Spectra Gizmo Answer Key**

Marcel A. Müller

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