

Name: _____ Date: _____

Student Exploration: Star Spectra

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. What happens when light goes through a prism? when light passes through a prism it refracts and the light separates into different colors, making a 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?

The sequence of colors in a rainbow is: 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.

1. 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 & helium

Note: The elements in a star's spectrum do not always reflect what the star is made of. The absorption spectrum is mostly determined by the surface temperature of the star.

Activity A:

Classifying stars

Get the Gizmo ready:

- Check that **Show labels** is on and **Neutral spectra** is selected.

Question: How are stars classified?

Harvard Classification Scheme			
Class	Color	Prominent spectral lines	Surface Temp. (K)
O	Blue	Ionized helium, hydrogen	> 25,000
B	Blue-white	Neutral helium, hydrogen	11,000 – 25,000
A	White	Hydrogen, ionized sodium, ionized calcium	7,500 – 11,000

Gizmos Star Spectra Answer Key

ML Morrison



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