



Name:

Date:

September 13, 2021

Student Exploration: Star Spectra

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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?

It is refracted by the different sides/angles of the prism, and is separated into rays of different 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, purple/indigo, 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?

I see ten lines in the spectrum.

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, some of the lines on the two spectra match up.

3. Drag the **Helium** spectrum next to the **Star** spectrum. Do some lines match?

Yes, some match.

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.

Student Exploration Star Spectra Answers

CH Cherryholmes



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