

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.)

1. 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.

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

**Yasumasa Yamashita, Kyoji Nariai, Yuji
Norimoto**



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The Philosophy of Cosmology Khalil Chamcham, Joseph Silk, John D. Barrow, Simon Saunders, 2017-04-13 Following a long term international collaboration between leaders in cosmology and the philosophy of science this volume addresses foundational questions at the limit of science across these disciplines questions raised by observational and theoretical progress in modern cosmology Space missions have mapped the Universe up to its early instants opening up questions on what came before the Big Bang the nature of space and time and the quantum origin of the Universe As the foundational volume of an emerging academic discipline experts from relevant fields lay out the fundamental problems of contemporary cosmology and explore the routes toward finding possible solutions Written for graduates and researchers in physics and philosophy particular efforts are made to inform academics from other fields as well as the educated public who wish to understand our modern vision of the Universe related philosophical questions and the significant impacts on scientific methodology

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which shape lines in stellar spectra will find this book equally fascinating [American Cinematographer](#) ,1990

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