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

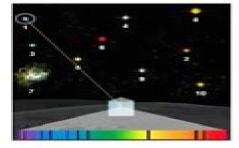
2. A rainbow is an example of a spectrum. What is the sequence of colors in a rainbow?

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 GizmoTM, 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.

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Student Exploration Star Spectra Answer Sheet

William Wilson Morgan, Philip Childs Keenan, Edith Kellman

Student Exploration Star Spectra Answer Sheet:

Bulletin of the Atomic Scientists, 1970-12 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world Spectroscopy Keith Robinson (B.A., Ph.D., F.R.A.S.), 2007 This text explains the physics and physical processes that cause the stellar spectra to be as they are Written specifically for amateur astronomers this book assumes only a basic knowledge of physics but looks in detail at many topics including energy levels in atoms the molecular spectra of red stars and emission lines in nebulae Photometric Atlas of Stellar Spectra William Albert Hiltner, Robley Cook Williams, 1946 **Spectroscopy: The Key to the Stars** Keith Robinson, 2007-01-24 This is the first non technical book on spectroscopy written specifically for practical amateur astronomers It includes all the science necessary for a qualitative understanding of stellar spectra but avoids a mathematical treatment which would alienate many of its intended readers Any amateur astronomer who carries out observational spectroscopy and who wants a non technical account of the physical processes which determine the intensity and profile morphology of lines in stellar spectra will find this is the only book written specially for them It is an ideal companion to existing books on observational amateur astronomical spectroscopy An Atlas of Stellar Spectra William Wilson Morgan, Philip Childs Keenan, Edith Kellman, 1943

Student Exploration Star Spectra Answer Sheet Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Student Exploration Star Spectra Answer Sheet**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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