Lab 5 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? It is bent, or refracted, by the angles and plane faces of the prism and each wavelength of light is refracted by a slightly different amount.

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?

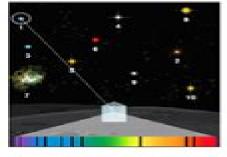
Red, orange, yellow, blue, indigo, violet

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.

 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? five



- 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 four lines on the spectrum do line up
- Drag the Helium spectrum next to the Star spectrum. Do some lines match? Yes some do 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

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

Answers For Virtual Astronomy Lab

K Morrison

Answers For Virtual Astronomy Lab:

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Table of Contents Answers For Virtual Astronomy Lab

- 1. Understanding the eBook Answers For Virtual Astronomy Lab
 - The Rise of Digital Reading Answers For Virtual Astronomy Lab
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Answers For Virtual Astronomy Lab
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For Virtual Astronomy Lab
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Answers For Virtual Astronomy Lab
 - Personalized Recommendations
 - Answers For Virtual Astronomy Lab User Reviews and Ratings
 - Answers For Virtual Astronomy Lab and Bestseller Lists

- 5. Accessing Answers For Virtual Astronomy Lab Free and Paid eBooks
 - o Answers For Virtual Astronomy Lab Public Domain eBooks
 - Answers For Virtual Astronomy Lab eBook Subscription Services
 - Answers For Virtual Astronomy Lab Budget-Friendly Options
- 6. Navigating Answers For Virtual Astronomy Lab eBook Formats
 - o ePub, PDF, MOBI, and More
 - Answers For Virtual Astronomy Lab Compatibility with Devices
 - Answers For Virtual Astronomy Lab Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Virtual Astronomy Lab
 - Highlighting and Note-Taking Answers For Virtual Astronomy Lab
 - Interactive Elements Answers For Virtual Astronomy Lab
- 8. Staying Engaged with Answers For Virtual Astronomy Lab
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - $\circ\,$ Following Authors and Publishers Answers For Virtual Astronomy Lab
- 9. Balancing eBooks and Physical Books Answers For Virtual Astronomy Lab
 - Benefits of a Digital Library
 - $\circ\,$ Creating a Diverse Reading Collection Answers For Virtual Astronomy Lab
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers For Virtual Astronomy Lab
 - Setting Reading Goals Answers For Virtual Astronomy Lab
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers For Virtual Astronomy Lab
 - Fact-Checking eBook Content of Answers For Virtual Astronomy Lab
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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