



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 we can see a rainbow of 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, 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.

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**

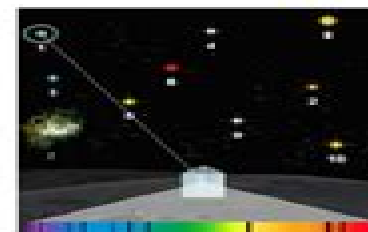
2. Drag the **Hydrogen** spectrum next to the **Star spectrum** so that the edges line up. Do some of the lines on the two spectra match up? **yes**

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 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.



Star Spectra Gizmo Quiz Answers

AN Whitehead



Star Spectra Gizmo Quiz Answers:

The Enigmatic Realm of **Star Spectra Gizmo Quiz Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Star Spectra Gizmo Quiz Answers** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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Table of Contents Star Spectra Gizmo Quiz Answers

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

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