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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?

White light divides into several wavelengths and hues, including red, orange, yellow, and green.

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?

The absence of light is depicted by the dark line. Red, green, yellow, orange, blue, purple, and black lines are all over the place.

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 lines

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?

Some of them do, but not all of them.

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

Helium does match the spectrum of stars.

4. Try out the other available spectra. Do any others have lines that match?

No, nobody else does.

Star Spectra Answer Key Gizmo

Tobias Bleicker

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Table of Contents Star Spectra Answer Key Gizmo

1. Understanding the eBook Star Spectra Answer Key Gizmo
 - The Rise of Digital Reading Star Spectra Answer Key Gizmo
 - Advantages of eBooks Over Traditional Books
2. Identifying Star Spectra Answer Key Gizmo
 - 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 Answer Key Gizmo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Star Spectra Answer Key Gizmo
 - Personalized Recommendations
 - Star Spectra Answer Key Gizmo User Reviews and Ratings
 - Star Spectra Answer Key Gizmo and Bestseller Lists
5. Accessing Star Spectra Answer Key Gizmo Free and Paid eBooks

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