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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 Gizmo Worksheet Answer

**Jianjun Gao**

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.

## Star Spectra Gizmo Worksheet Answer:

**F&S Index United States Annual** ,1999      *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      *Theory of Stellar Spectra [with Lists of References]* ,1967      *Notes on Stellar Spectra* Otto Struve,1944      *Photometric Atlas of Stellar Spectra* W. A. Hiltner,Robley C. Williams,1946      *A Display Atlas of Stellar Spectra* Bruce Margon,George H. Jacoby,1986\*

**Comparison of stellar spectra of the third and fourth types** George Ellery Hale,1899      **Photometric Atlas of Stellar Spectra** W. A. Hiltner,Robley C. Williams,1946      *Photometric Atlas of Stellar Spectra* W. A. Hiltner,Robley C. Williams,1946      *Stellar Spectra of Class S ...* Paul Willard Merrill,1922      **A Display Atlas of Stellar Spectra** ,1984  
**A Display Atlas of Stellar Spectra** George H. Jacoby,1984      *Model Calculations of Stellar Spectra* ,1982  
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## **Table of Contents Star Spectra Gizmo Worksheet Answer**

1. Understanding the eBook Star Spectra Gizmo Worksheet Answer
  - The Rise of Digital Reading Star Spectra Gizmo Worksheet Answer
  - Advantages of eBooks Over Traditional Books
2. Identifying Star Spectra Gizmo Worksheet Answer
  - 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 Worksheet Answer
  - User-Friendly Interface
4. Exploring eBook Recommendations from Star Spectra Gizmo Worksheet Answer
  - Personalized Recommendations
  - Star Spectra Gizmo Worksheet Answer User Reviews and Ratings
  - Star Spectra Gizmo Worksheet Answer and Bestseller Lists
5. Accessing Star Spectra Gizmo Worksheet Answer Free and Paid eBooks
  - Star Spectra Gizmo Worksheet Answer Public Domain eBooks
  - Star Spectra Gizmo Worksheet Answer eBook Subscription Services
  - Star Spectra Gizmo Worksheet Answer Budget-Friendly Options
6. Navigating Star Spectra Gizmo Worksheet Answer eBook Formats

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