

Name: _____

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? _____
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? _____

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? _____
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? _____
3. Drag the **Helium** spectrum next to the **Star** spectrum. Do some lines match? _____
4. Try out the other available spectra. Do any others have lines that match? _____
5. Which elements have contributed to the spectrum of star 1? _____



Activity A: Classifying stars

Get the Gizmo ready: Check that **Show labels** is on and **Neutral spectra** is selected.

Question: How are stars classified?

Introduction: Late in the 19th century, Harvard astronomer Edward Pickering wanted to sort and catalog the thousands of star spectra that had been collected by the Harvard Observatory. He hired several women to do the work, paying them 25 cents a day. The most prominent of these women was Annie Jump Cannon, who devised a classification system still used today.

Harvard Classification Scheme			
Class	Color	Prominent spectral lines	Surface Temp. (K)
O	Blue	ionized helium, hydrogen	> 25,000
B	Blue-white	Neutral helium, hydrogen	11,000 – 25,000
A	White	Hydrogen, ionized sodium, ionized calcium	7,500 – 11,000
F	White	Hydrogen, ionized sodium and calcium; neutral sodium and calcium	6,000 – 7,500
G	Yellow	Neutral sodium and calcium, ionized calcium, ionized iron, ionized magnesium	5,000 – 6,000
K	Orange	Neutral calcium, neutral iron, neutral magnesium	3,500 – 5,000
M	Red	Neutral iron, neutral magnesium, and neutral titanium oxide (not shown)	< 3,500

Gizmo Star Spectra Answer Key

S Ashworth



Gizmo Star Spectra Answer Key:

The Enigmatic Realm of **Gizmo Star Spectra Answer Key**: Unleashing the Language is Inner Magic

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Table of Contents Gizmo Star Spectra Answer Key

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

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