

Name: _____

Date: _____

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 the visible spectrum showing the colors of the rainbow are visible.**

This band of colors is called a **spectrum**.
Red, Orange, Yellow, Green, Blue, Indigo, Violet

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? **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, 4 of them line up.**
3. Drag the **Helium** spectrum next to the **Star** spectrum. Do some lines match? **Yes they all match.**
4. Try out the other available spectra. Do any others have lines that match? **No, some have some lines matching but not the majority of them.**



Star Spectra Gizmo

Xiang Xie

A red circular graphic with a gradient, appearing as a stylized sun or star, positioned to the right of the author's name.

Star Spectra Gizmo:

This book delves into Star Spectra Gizmo. Star Spectra Gizmo is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Star Spectra Gizmo, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Star Spectra Gizmo
- Chapter 2: Essential Elements of Star Spectra Gizmo
- Chapter 3: Star Spectra Gizmo in Everyday Life
- Chapter 4: Star Spectra Gizmo in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Star Spectra Gizmo. The first chapter will explore what Star Spectra Gizmo is, why Star Spectra Gizmo is vital, and how to effectively learn about Star Spectra Gizmo.
3. In chapter 2, the author will delve into the foundational concepts of Star Spectra Gizmo. This chapter will elucidate the essential principles that must be understood to grasp Star Spectra Gizmo in its entirety.
4. In chapter 3, this book will examine the practical applications of Star Spectra Gizmo in daily life. The third chapter will showcase real-world examples of how Star Spectra Gizmo can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Star Spectra Gizmo in specific contexts. This chapter will explore how Star Spectra Gizmo is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Star Spectra Gizmo. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Star Spectra Gizmo.

http://www.frostbox.com/files/scholarship/default.aspx/The_Speed_Chronicles_Akashic_Drug_Chronicles.pdf

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Star Spectra Gizmo Introduction

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