

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? the waves separate from each other ✓
This band of colors is called a **spectrum**.
the visible spectrum

2. A rainbow is an example of a spectrum. What is the sequence of colors in a rainbow?
red orange yellow green blue purple

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 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.

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Answer Key To Star Suite

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Answer Key To Star Suite:

BoogarLists | Directory of Software Solutions , *Appliance Standards* United States. Congress. Senate. Committee on Energy and Natural Resources,2009 Vip Foster,1992-02 Cable & Satellite Yearbook ,2003 **Journey to Excellence: Navigating the Hospitality Career Path from Local to Global** Mr. Pandaraboina Suresh Babu,2024-07-31 Journey to Excellence Navigating the Hospitality Career Path from Local to Global is an essential guide for individuals aspiring to thrive in the diverse and competitive field of hospitality management This book begins by laying a solid foundation emphasizing the core skills and knowledge needed to embark on a successful career in hospitality It addresses the importance of customer service excellence operational efficiency and teamwork from the local perspective providing practical tips and case studies to illustrate key concepts As the journey progresses the focus shifts towards preparing professionals for global opportunities Readers are introduced to the complexities of managing hospitality operations across different cultures and regions Cultural competency becomes a central theme exploring how understanding and respecting diverse customs and norms can enhance guest satisfaction and operational efficiency The book also delves into strategic leadership offering insights into decision making processes crisis management and sustainable practices that are critical in today s globalized hospitality industry **Resources in Education** ,1997 **Handbook of Response to Intervention and Multi-Tiered Systems of Support** Paige C. Pullen,Michael J. Kennedy,2018-10-04 Of the many issues facing special education and general education today it is difficult to imagine one more important or timely than response to intervention RTI Almost overnight RTI has become standard practice across the nation Unfortunately RTI remains ill defined falls far short of its evidence based practice goal is almost invariably misused and often results in more harm than good Nevertheless as a conceptual framework RTI has great potential for ensuring that students with disabilities receive appropriate evidence based instruction The mission of this handbook is to present a comprehensive and integrated discussion of response to intervention RTI and its relation to multi tiered systems of support MTSS in both special education and general education Although the two terms are currently used interchangeably distinct differences exist between them Therefore chapters are dedicated to distinguishing the two concepts RTI and MTSS and describing each one s unique role in both general and special education In addition the authors recommend a third term Multi Tiered Instruction to differentiate the practices related to the purpose of the specific intervention **Music Guide to Classroom Use in Intermediate Grades** ,1977 **The Insurance Salesman** ,1973 **Great Composers and Their Music** Audrey J. Adair-Hauser,1987 helps students relate to some of the foremost composers of the past and present cultivate an early taste for good music and invite s students to compose on their own Jacket *MCSE Networking Essentials Exam Cram* Ed Tittel,Kurt Hudson,James Michael Stewart,2000 This latest edition contains two complete and revised practice exams and explains the reasoning behind correct answers Readers will benefit from warnings on trick questions time saving study tips and multi part question strategies **Advertisers Weekly**

,1963 **InfoWorld** ,1995-07-03 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects **Hospitality Technology** ,2006 Symphonies Under the Stars ,1956 The Directory of Venture Capital & Private Equity Firms Richard Gottlieb,2008 Etude ,1888 Includes music Data Sources ,2000 *Orchestra and the Choir* ,1879 Compute ,1993-05

The Top Books of the Year Answer Key To Star Suite The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

<https://legacy.tortoisemedia.com/data/Resources/index.jsp/Psychology%20Of%20Success%20Complete%20Workbook.pdf>

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