

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 **Cable & Satellite Yearbook** ,2003 **Vip Foster**,1992-02 **The Rock Star's Daughter** Caitlyn Duffy,2011-09-12 At the age of 15 Taylor Beauforte has only met her father twice in person After all he is the lead singer of a world famous rock band constantly on the cover of music magazines and giving interviews on MTV He pays for Taylor to attend the Treadwell Academy a prestigious boarding school in Massachusetts and provides her mother with monthly checks to cover her basic needs but has never made much of an effort to play an active part in Taylor s life Taylor s mom Dawn is the only family she has ever really known and because of Dawn s hard partying Hollywood lifestyle studious Taylor is happiest on the other side of the country in Massachusetts with her nose buried in a book When Taylor s mom unexpectedly dies the summer before Taylor starts her junior year she receives a crash course in fame She has no choice but to join her father and his new family on their summer concert tour before she has even had a chance to mourn the loss of her mother Life as the daughter of a rock star seems like it would be enviable but Taylor can t figure her dad out He seems like a supportive authority figure even if he s kind of a fashion tragedy but she is collecting a growing pile of evidence that he s a liar and a cheat Her stepmother Jill can t seem to decide if she wants to treat Taylor like a girlfriend or a nuisance Having had no time to grieve and say goodbye to her childhood before being thrust into the limelight Taylor is suddenly finding herself in situations she could have never imagined before this summer With no one else to turn to Taylor falls head over heels in love with Jake the teenage son of one of the band s touring groupies Taylor has growing concerns about Jake s background and the suspicious relationship between his mom and her own father but is desperate for something real in her life onto which she can build a future When Jake offers Taylor an opportunity to join him on a whirlwind adventure and leave her problems with her father far behind Taylor has to decide should she carve out her own way in the world or try to repair the relationship she has with her only living parent Over the course of the summer with the band Taylor learns the depths of her own strength the difficulty of overcoming loss and that the definition of family means much more than shared bloodlines Publisher s Advisory This book is intended for readers aged 12 and above This book addresses topics of grief infidelity and includes romantic situations and mild language We encourage parents to address mature topics associated with the difficult decisions of growing up with teen readers **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

The Advocate
,1995-07-11 The Advocate is a lesbian gay bisexual transgender LGBT monthly newsmagazine Established in 1967 it is the oldest continuing LGBT publication in the United States

Resources in Education ,2000-10

Stars of the Opera
Mabel Wagnalls,2018-04-05 Reproduction of the original Stars of the Opera by Mabel Wagnalls

Sport Diver ,1995-06

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Answer Key To Star Suite Introduction

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Tiddalik the Frog. 1: Tiddalik the Frog was thirsty, thirsty Song: 'Tiddalik the Frog was thirsty, thirsty'. Sing the song with Andy and Rebecca. In addition to the full vocal version and backing track versions of the ... Tiddalik the Frog This offers a karaoke-style video of the song, with the lyrics appearing on screen. Each song is approximately 2 to 3 minutes long. The song - backing track ... TIDDALIK THE FROG Tiddalik was a large frog, the largest frog ever known. SONG: No. 1. ONCE LONG ... MR WOMBAT (Spoken over the music of the verses.) Gather round my friends. I ... Froggy Fun - Music Connections Recommends... Nov 1, 2007 — A little pig makes up a new song, and can't find anyone to share it with, until he meets a frog who likes to sing and make up songs too. Infant Music at Home 17 Learn to sing a song about Tiddalik the Frog with BBC Teach. This is based on a traditional Aboriginal 'dreamtime' story from Australia. ... Tiddalik is so ... Tiddalik the frog Aria from the Notebook for Anna Magdalena by J.S. Bach Arranged for Band - MP3. Created by. Vinci eLearning. Tiddalick the Frog - Dreamtime Oct 29, 2018 — We'll share a dream and sing with one voice "I am, you are, we are Australian". I'm a teller of stories. I'm a singer of songs. I am Albert ... Musical Childhoods: Explorations in the pre-school years CRMA Study Materials CRMA Review Manuals and Software. The new CRMA Exam Study Guide and Practice Questions, 3rd Edition, is a comprehensive review resource for candidates to ... CRMA® Exam Study Guide and Practice Questions, 2nd ... The CRMA® Exam Study Guide and Practice Questions, 2nd Edition, compiles the comprehensive review material you need to prepare for the Certification in Risk ... Free Health & Social Care Flashcards about CRMA Recert ... Study free Health & Social Care flashcards about CRMA Recert 40 Hr created by 100001321957590 to improve your grades. Matching game, word search

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