

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? _____

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.

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



Science World Answers April 2014

Sam Human



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The Burning Answer Keith Barnham, 2015-05-15 Our society faces a choice We could be enjoying a sustainable lifestyle but we have chosen not to In three generations we have consumed half the oil produced by photosynthesis over eight million generations In two generations we have used half our uranium resources With threats from global warming oil depletion and nuclear disaster we are running out of options Solar power as Keith Barnham says is our necessary solution Barnham explains that the roots of solar energy lie in a little known equation $E = hf$ an equation which was coincidentally celebrated and explained to the world by Einstein in the same year he discovered $E = mc^2$ He alleges that the former equation has been overlooked in favor of the latter much to our detriment and Barnham is here to offer us a solution We can still turn things around and solar energy is the key In this provocative inspiring passionately argued book Keith Barnham outlines actions that any one and all of us can take to make an impact now and on future generations The Burning Answer is a solar manifesto for the new climate aware generation and a must read for climate change skeptics

The Heresy of Ham, Revised Edition Joel Edmund Anderson, 2024-11-07 One of the most controversial issues in our society today especially within Evangelicalism is that of the creation evolution debate Over the past few decades Fundamentalist apologists like Ken Ham of the young earth creationist organization Answers in Genesis have made a career convincing people that the age of the Earth and the historicity of Genesis 1:11 are not just bedrock fundamental tenets of the Christian faith but are also crucial fronts in the culture war In The Heresy of Ham Joel Edmund Anderson convincingly shows that not only are the YECist claims of Ken Ham unbiblical and unscientific but they have sowed the seeds of strife and division within countless Christian communities He should know he lost his job as a biblical worldview teacher at a small Evangelical school over the issue of YECism Anderson's ultimate message is simple regardless of your position regarding evolution or the interpretation of Genesis 1:11 they are not fundamental to the Christian faith and should not be used as battlefronts in the culture war If you have always had questions about the creation evolution debate the claims of YECism and the way Genesis 1:11 should be interpreted The Heresy of Ham is a tremendous resource for anyone struggling coming to grips with these issues

Historical Dictionary of the United Nations Educational, Scientific and Cultural Organization (UNESCO) Lin Lin, Seth Spaulding, 2022-07-15 Established in the aftermath of World War II UNESCO succinctly states its peace mission as well as its peaceful resolution to peace in its Constitution constructing the defenses of peace in the minds of peoples on the intellectual and moral grounds For more than seven decades UNESCO has been consistently positioning peace as its unwavering core and ultimate goal through promoting international understanding and cooperation in and across its five major sectors of competence in education natural sciences culture communication and information and social and human sciences Historical Dictionary of the United Nations Educational Scientific and Cultural Organization UNESCO Second Edition contains a chronology an introduction and an extensive bibliography The dictionary section has more than 700 cross referenced entries

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The Black Woman's Breast Cancer Survival Guide Cheryl D. Holloway, 2017-07-14. Breast cancer is reaching epidemic levels, especially among black women. This survival guide provides tools that women, black women in particular, can use to identify and combat this all too common threat. This what you need to know guide is unique in its common sense, laywoman's approach, and particular relevance to women of color. Its premise is simple: ignorance and lack of education about breast cancer signs and symptoms are still all too prevalent among black women. Many women are not informed about resources available for early detection screening and are not referred for mammography screening. They may also receive significantly delayed treatment, especially black women. For those reasons, and more, black women with or at risk for breast cancer need an advocate who speaks for them and tells them the truth. They have that advocate in Cheryl Holloway, PhD, and in this book, a breast cancer survivor and cancer researcher, Dr. Holloway draws on her personal experience and research to offer something far different than the usual medical oncological works. Her book provides support, current information, and practical advice for confronting and beating the disease. The book is divided into four parts: Dealing with the

Basics explains how breast cancer hits black women harder and discusses the types of breast cancer they may develop with an emphasis on the most dangerous. The second section offers practical information such as how screenings work and the meaning of various breast cancer tests. Part three describes treatments including surgery, radiation therapy, chemotherapy, hormone therapy, combined therapy, and other options. The final section describes how to stay vigilant after the cancer is gone and also discusses other forms of cancer for which black women are at risk such as lung cancer, colon cancer, and cervical cancer.

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Industry **Kimberly Bryant** Kathryn Hulick,2017-07-15 With an ever growing need to engage young women in science and tech Kimberly Bryant saw a lack of tech programming for girls of color So in 2011 the engineer and entrepreneur founded Black Girls Code a nonprofit with the tagline imagine build and create Readers will learn how these same principles informed Bryant s own rise as a pioneering African American tech innovator and be inspired by her determination to expose young minds to STEM fields **Job interview questions and answers for employment on Offshore Drilling Platforms** Petrogav International Oil & Gas Training Center,2020-06-28 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 272 questions and answers for job interview and as a BONUS 289 links to video movies and web addresses to 205 recruitment companies where you may apply for a job This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry Management Christopher P. Neck,Jeffery D. Houghton,Emma L. Murray,2020-11-18 Management Third Edition introduces students to the planning organizing leading and controlling functions of management with an emphasis on how managers can cultivate an entrepreneurial mindset The text includes 34 cases profiling a wide range of companies including Lululemon Nintendo Netflix Trader Joe s and the NBA Authors Christopher P Neck Jeffrey D Houghton and Emma L Murray use a variety of examples applications and insights from real world managers to help students develop the knowledge mindset and skills they need to succeed in today s fast paced dynamic workplace This title is accompanied by a complete teaching and learning package *Fukushima Disaster* Danielle Smith-Llera,2018 A massive tsunami caused by the strongest earthquake to ever hit Japan triggered the world s worst nuclear crisis since the Chernobyl accident 25 years earlier The monster waves that crashed into the Fukushima Daiichi nuclear plant in March 2011 killed 15 000 people and caused nuclear reactor meltdowns that threatened the lives of thousands more The waves receded long ago but the devastating effects of the nuclear accident still linger **The Trade Policy Review Mechanism** Mathias Kende,2018-02-09 The WTO s Trade Policy Review Mechanism which reviews the trade policies and practices of each WTO member at regular intervals is generally considered to function well In this day and age complacency is unwise Examining trade policy reviews throughout the lifetime of the TPRM this book details its evolution from Article X of the General Agreement on Tariffs and Trade to the proposed modifications resulting from the mechanism s latest appraisal examining the budgetary capabilities and technical performance of all the main entities who participate in the reviews On the basis of these considerations the author concludes that in order to remain relevant especially in times of increased global protectionism the TPRM could and should do better and provides unique and timely suggestions for reform **Engaging the Brain** Marcia L. Tate,2024-08-21 Create

unforgettable learning experiences for your students What can you do when students would rather socialize than pay attention to your lesson When students appear to lack motivation how do teachers ensure that learning sticks How can you best respond to learning loss caused by the pandemic In this new edition of Marcia Tate s wildly bestselling Worksheets Don t Grow Dendrites 20 field tested brain compatible instructional strategies designed to maximize memory are supported by new classroom applications and research In each chapter devoted to an individual strategy you ll discover The latest research on how the brain benefits when the strategy is used How the strategy engages all students and addresses common behavior problems Sample classroom activities for various grade levels that teachers can implement immediately Action plans for incorporating each strategy to accelerate learning When students actively engage in learning they stand a much better chance of retaining what we want them to know As students face setbacks and learning gaps it s imperative that we quickly bridge these divides by teaching them in the way their brains learn best

Dinosaurs, Dragons, and the Bible Bodie Hodge, 2023-05-09 Dinosaurs Dragons and the Bible is a one of a kind Christian apologetic resource sure to captivate families scientists historians and theologians Using the Bible as the absolute authority Bodie Hodge of Answers in Genesis the Creation Museum and the Ark Encounter provides answers to the most asked questions about these amazing creatures As Christians we must not ignore what the Scriptures say about dinosaurs and dragons and accept the secular world s wisdom This ProBible handbook offers fascinating answers based on fossil footprints soft tissue biblical references to dragons serpents and leviathans and much more Go beyond the Hollywood version of these magnificent creatures to discover the truth of these icons of Creation and testaments of God s power in the Genesis Flood Designed for almost all ages the book answers questions such as How Did Huge Dinosaurs Fit on the Ark Are Dinosaurs and Dragons the Same Thing How Do I Use the Bible as the Framework to Look at Dinosaurs Were Dinosaurs on Noah s Ark and Did Any Go Extinct Before the Flood Are Dinosaur Fossils in the Cretaceous Jurassic and Triassic Rock Millions of Years Old or from the Flood Why Don t We Find the Word Dinosaur in the Bible Are There Any Human and Dinosaur Fossils Buried Together Dinosaurs are nearly synonymous with evolution in the minds of much of the world Studying these answers will help Christian families church leaders scientists and theologians develop greater faith in the infallibility of God s Word and His role as Creator A Note from the author Bodie Hodge I want to encourage parents and churches to be able to respond biblically to the secular attacks war on our children So as any good General would do in times of war we need to study our opponent and know exactly what the secular side is teaching our children Then get equipped with solid biblical answers from our highest commanding officer God and His Word to defend our children against the attacks Then teach this knowledge diligently and apologetically to the next generation like parents and churches are supposed to do e g Ephesians 6 4 11 2 Timothy 3 16 17

Regulating Blockchain Philipp Hacker, Ioannis Lianos, Georgios Dimitropoulos, Stefan Eich, 2019-08-29 Less than a decade after the Financial Crisis we are witnessing the fast emergence of a new financial order driven by three different yet interconnected dynamics first the rapid

application of technology such as big data machine learning and distributed computing to banking lending and investing in particular with the emergence of virtual currencies and digital finance second a disintermediation fuelled by the rise of peer to peer lending platforms and crowd investment which challenge the traditional banking model and may over time lead to a transformation of the way both retail and corporate customers bank and third a tendency of de bureaucratisation under which new platforms and technologies challenge established organisational patterns that regulate finance and manage the money supply These changes are to a significant degree driven by the development of blockchain technology The aim of this book is to understand the technological and business potential of the blockchain technology and to reflect on its legal challenges The book mainly focuses on the challenges blockchain technology has so far faced in its first application in the areas of virtual money and finance as well as those that it will inevitably face and is partially already facing as the SEC Investigative Report of June 2017 and an ongoing SEC securities fraud investigation show as its domain of application expands in other fields of economic activity such as smart contracts and initial coin offerings The book provides an unparalleled critical analysis of the disruptive potential of this technology for the economy and the legal system and contributes to current thinking on the role of law in harvesting and shaping innovation

No Fly Zones and International Security Stephen Wrage, Scott Cooper, 2019-03-14 This book discusses the practice of no fly zones in international affairs The first no fly zone was imposed over northern Iraq immediately after the first Gulf War and since then they have become a regular recourse for policymakers confronted with humanitarian crises They have come to be viewed as a feasible essentially non violent form of intervention that can be performed entirely from the air in a situation where some form of action is widely thought to be necessary but the political will for a ground operation is insufficient Nonetheless even among policy makers there is limited understanding of the requirements the shortcomings and the potentialities of no fly zones This is the first comprehensive work on this topic and examines the assumptions surrounding no fly zones by focusing on issues such as authority cost possibility of escalation and effectiveness Looking back at 25 years of experience with no fly zones the book's goal is to look at what historical lessons may be drawn and to make some predictions with regard to the politics and strategy of no fly zones in the future This book will be of much interest to students of air power security studies Middle Eastern Studies and IR in general

Insects David Rivers, 2017-04-15 An introduction to the intriguing world of insects from bullet ants to butterflies Designed as an introduction to the intriguing world of insect biology this book examines familiar entomological topics in nontraditional ways Author David B Rivers gives important concepts relatable context through a pop culture lens and he covers subjects that are not typical for entomology textbooks including the impact of insects on the human condition the sex lives of insects why insects are phat but not fat forensic entomology and the threats that some insects pose to humanity Each chapter presents clear and concise key concepts chapter reviews review questions following Bloom's taxonomy of learning web links to videos and other resources and breakout boxes called Fly Spots that capture

student interest with unique and entertaining facts related to entomology Focusing on both traditional and cutting edge aspects of insect biology and packed with extensive learning resources Insects covers a wide range of topics suitable for life science majors as well as non science students including the positive and negative influences of insects on everyday human life insect abundance insect classification here presented in the context of social media insect feeding communication defense and sex how insects are responding to climate change forensic entomology how insects can be used as weapons of war how insects relate to national security why insects have wings how to read pesticide labels **Maria's Keepers** Sam Human,2024-02-01 Maria is a young woman raised as a Jehovah s Witness in South Africa and this book documents her experiences of gender victimisation sexual abuse and cover ups within the church as well as her eventual escape from its doctrines and control Maria s freedom came at a price however she can never see her mother and sister again Entering the church is easy but leaving it can be a matter of life or death as Maria and countless others discovered

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