

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



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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 273 technical questions and answers for job interview Offshore Oil & Gas Platforms PETROGAV INTERNATIONAL, This book offers you a brief but very involved look into the operations in the exploitation of Oil Gas wells that will help you to be prepared for job interview at oil gas companies From start to finish you will see a general prognosis of the production process If you are new to the oil gas industry you will enjoy having a leg up with the knowledge of these processes If you are a seasoned oil gas person you will enjoy reading what you may or may not know in these pages This course provides a non technical overview of the phases operations and terminology used on offshore production platforms It is intended also for non drilling personnel who work in the offshore drilling exploration and production industry This includes marine and logistics personnel accounting administrative and support staff environmental professionals etc No prior experience or knowledge of drilling operations is required This course will provide participants a better understanding of the issues faced in all aspects of drilling operations with a particular focus on the unique aspects of offshore operations **273 technical questions and answers for job interview Offshore Drilling Rigs** Petrogav International Oil & Gas Training Center, 2020-06-29 The job interview is probably the most important step you will take in your job search journey Because it is 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 273 questions and answers for job interview and as a BONUS web addresses to 280 video movies for a better understanding of the technological process 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 *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 on UNESCO s initiatives programs projects normative instruments and partners over the past 76 years This book is an excellent resource for students researchers and anyone wanting to know more about UNESCO 200 technical questions and answers for job interview Offshore Drilling Platforms Petrogav International Oil & Gas Training Center,2020-06-29 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 200 questions and answers for job interview and as a BONUS web addresses to 309 video movies for a better understanding of the technological process 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 *Job interview questions and answers for employment on Offshore Drilling Platforms* PETROGAV INTERNATIONAL,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 questions and answer for job interview and as a BONUS links to video movies and web addresses to 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 **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

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

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

100 questions and answers for job interview Offshore Drilling Platforms PETROGAV INTERNATIONAL, This book offers you a brief but very involved look into the

operations in the drilling of an oil gas wells that will help you to be prepared for job interview at oil gas companies From start to finish you ll see a general prognosis of the drilling process If you are new to the oil gas industry you ll enjoy having a leg up with the knowledge of these processes If you are a seasoned oil gas person you ll enjoy reading what you may or may not know in these pages This course provides a non technical overview of the phases operations and terminology used on offshore drilling platforms It is intended also for non drilling personnel who work in the offshore drilling exploration and production industry This includes marine and logistics personnel accounting administrative and support staff environmental professionals etc No prior experience or knowledge of drilling operations is required This course will provide participants a better understanding of the issues faced in all aspects of drilling operations with a particular focus on the unique aspects of offshore operations

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

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

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

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 11-12 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.

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.

The Evolution of Military Power in the West and Asia Pauline Eadie, Wyn Rees, 2015-09-16 This book investigates how states in both the West and Asia have responded to multi-dimensional security challenges since the end of the Cold War, focusing on military transformation. Looking at a cross-section of different countries, this volume assesses how their armed forces have responded to a changing international security context. The book investigates two main themes. First, how the process of military transformation in terms of technological advances and new ways of conducting warfare has impacted on the militaries of various countries. These technologies are hugely expensive and the extent to which different states can afford them and the ability of these states to utilise these technologies differs greatly. Second, the volume investigates the social dimensions of military transformation. It reveals the expanding breadth of tasks that contemporary armed forces have been required to address. This includes the need for military forces to work with other actors such as non-governmental agencies and humanitarian organisations and the ability of armed forces to fight asymmetric opponents and conduct post-conflict reconstruction tasks. The conflicts in Iraq and Afghanistan exemplified how important the relationship between technological and social transformation has become. This book will be of much interest to students of strategic studies, military innovation, Asian politics, security studies and International Relations.

The Ethics of Biotechnology Gaymon Bennett, 2022-01-26 The essays collected in this volume provide students of ethics with essential tools for making sense of emerging biotechnical capacities and the turbulent power relations these capacities are bringing into the world. Unlike previous reference works in bioethics which focus on specific domains of human activity such as genetic research or biomedicine, this volume directs students' attention to the underlying cultural and institutional forces that shape

how biotechnologists approach the world and teaches students how to weigh the ethical significance of these forces This innovative approach to the ethics of biotechnology detailed in the volume s introduction equips students to track the dynamic interplay of biology digital technology and the high tech economy which is remaking the living world today and the human relation to it **Structure, Agency and Biotechnology** Aristeidis Panagiotou,2017-07-03 Structure Agency and Biotechnology argues for the significance of sociological theory and highlights the insights it can offer to the study of agricultural biotechnology Cautioning against a simplistic reading of the GM controversy as merely a debate of science versus politics Aristeidis Panagiotou suggests that the discussion should be embedded in the wider social political economic and cultural contexts Structure Agency and Biotechnology assesses the 2012 Rothamsted GM wheat trials and proposes that the tension underlying GM technology should be resolved through sustained dialogue public involvement and broad scientific consensus

Reviewing **Science World Answers April 2014**: Unlocking the Spellbinding Force of Linguistics

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