

Name _____ Date _____ Period _____

Alien Periodic Table



Introduction

Imagine that inhabitants of another planet send a message to Earth that contains information about 30 elements. However, the message contains different names and symbols for these elements than those used on Earth. Which elements on the periodic table do these "alien" names represent?

Objective:

To draw conclusions about the Earth names of the alien elements based on atomic number.
To classify elements based on their properties.
To infer the position of the elements on the periodic table.

Materials

- periodic table for reference

Procedure

1. Listed below are data on the chemical and physical properties of the 30 elements. Use the clues to determine which Earth elements correspond to the "alien" ones. Place the elements in their proper position in the blank periodic table (three are given in case of mistakes – **Only the bottom will be graded – make sure it is neat and fully complete!!!**).
 - The noble gases are bombal (Bo), wobble (Wo), jeptum (J), and logon (L). Among these gases, wobble has the greatest atomic mass and bombal the least. Logon is lighter than jeptum.
 - The most reactive group of metals are xtalt (X), byyou (By), chow (Ch), and quackzil (Q). Of these metals, chow has the lowest atomic mass. Quackzil is in the same period as wobble.
 - Apstrom (A), vulcania (V), and kratt (Kt) are nonmetals whose atoms typically gain or share one electron. Vulcania is in the same period as quackzil and wobble.
 - The metalloids are ernst (E), highho (Hi), terriblum (T), and sississ (Ss). Sississ is the metalloid with the greatest atomic mass. Ernst is the metalloid with the lowest atomic mass. Highho and terriblum are in Group 14. Terriblum has more protons than highho. Yazzer (Yz) touches the zigzag line, but it's a metal, not a metalloid.
 - The lightest element of all is called pfsst (Pf). The heaviest element in the group of 30 elements is eldorado (El). The most chemically active nonmetal is apstrom. Kratt reacts with byyou to form table salt.

Missing Alien Periodic Table Lab

Everett Franklin Bleiler, Richard Bleiler

Missing Alien Periodic Table Lab:

The Effectiveness of Personal Response Systems at Increasing the Engagement and Achievement of Students in a Science Classroom Renee L. Gilson, 2010 **Chemical Building Blocks** Michael J. Padilla, David V. Frank, John G. Little, Steve Miller, 2000 *Molecules* Philip Ball, 2003-11-27 The processes in a single living cell are akin to that of a city teeming with molecular inhabitants that move communicate cooperate and compete In this Very Short Introduction Philip Ball explores the role of the molecule in and around us how for example a single fertilized egg can grow into a multi celled Mozart what makes spider s silk insoluble in the morning dew and how this molecular dynamism is being captured in the laboratory promising to reinvent chemistry as the central creative science of the century ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable *Stories of the Invisible* Philip Ball, 2001 What are things made of Everything is composed of small mollycules of itself and they are flying around in concentric circles and arcs and segments explains Sergeant Fottrell in Flann O'Brien s The Dalkey Archive Philip Ball shows that the world of the molecule is indeed a dynamic place Using the chemistry of life as a springboard he provides a new perspective on modern chemical science as a whole Living cells are full of molecules in motion communication cooperation and competition Molecular scientists are now starting to capture the same dynamism in synthetic molecularsystems promising to reinvent chemistry as the central creative science of the new century **Onscreen Chemistry** John O'Donoghue, 2025-02-12 Lights Camera Reaction How do real world discoveries affect what we see on screen What impact does the world of film have on how we view chemistry Are chemists the villains or the heroes From Transylvania and Chernobyl to generic geniuses and meth makers explore the fascinating world of the big and small screen through a chemist s eye as cinema and television are passed under the microscope From the earliest silent films through to modern multi episode television discover the real life chemistry that inspired your favourite shows Learn how depictions of chemists have changed through the years Are chemists always pictured as relentless in their quest are the dangers and risks accurately represented and did the image of chemistry teachers change after the portrayal of a teacher turned illicit drug supplier Uncover the facts and fiction around these questions and many more with Onscreen Chemistry **Allah does not have an Exit Visa** Allan M. Jack, 2014-05-28 This is a personal look at one life lived by an ordinary guy who has visited some extraordinary places From Scotland to Saudi Arabia Allan M Jack s autobiography takes you on a journey through education marriage geology apartheid travel and everything in between Allan sets the scene with stories of his parents and grandparents including descriptions of his Scottish home village Gartmore This is followed by a chronicle of his schooldays and a somewhat chequered and chaotic career at Glasgow University and the University of Cape Town in South Africa with

asides including love and marriage youth organisations and various sporting activities Journey with Allan his wife and their three children as they face the reality of apartheid in South Africa for eleven years and after a particularly close to home bombing experience are driven back home to the UK for sixteen years Engage in an ongoing family history into which Allan weaves stories of his travels around Europe Africa the Middle East the USA Chile Baku Kazakhstan and Singapore and finally ending up in Saudi Arabia where he joins a small junior mining company Written to give his descendants an idea of what he did with his life Allan s book will appeal to those interested in travelling exotic lands history and biographies

Mobile Brain-Body Imaging and the Neuroscience of Art, Innovation and Creativity Jose L. Contreras-Vidal, Dario Robleto, Jesus G. Cruz-Garza, José M. Azorín, Chang S. Nam, 2019-11-15 Mobile Brain Body Imaging and the Neuroscience of Art Innovation and Creativity is a trans disciplinary collective multimedia collaboration that critically uncovers the challenges and opportunities for transformational and innovative research and performance at the nexus of art science and engineering This book addresses a set of universal and timeless questions with a profound impact on the human condition How do the creative arts and aesthetic experiences engage the brain and mind and promote innovation How do arts science collaborations employ aesthetics as a means of problem solving and thereby create meaning How can the creative arts and neuroscience advance understanding of individuality and social cognition improve health and promote life long learning How are neurotechnologies changing science and artistic expression How are the arts and citizen science innovating neuroscience studies informal learning and outreach in the public sphere Emerging from the 2016 and 2017 International Conferences on Mobile Brain Body Imaging and the Neuroscience of Art Innovation and Creativity held in Cancun Mexico and Valencia Spain to explore these topics this book intertwines disciplines and investigates not only their individual products art and data but also something more substantive and unique the international pool of contributors reveals something larger about humanity by revealing the state of the art in collaboration between arts and sciences and providing an investigational roadmap projected from recent advances Mobile Brain Body Imaging and the Neuroscience of Art Innovation and Creativity is written for academic researchers professionals working in industrial and clinical centers independent researchers and artists from the performing arts and other readers interested in understanding emergent innovations at the nexus of art science engineering medicine and the humanities The book contains language design features illustrations diagrams to develop a conversational bridge between the disciplines involved supplemented by access to video artistic presentations and the results of a hackathon from the MoBI conferences

Video Source Book ,2006 A guide to programs currently available on video in the areas of movies entertainment general interest education sports recreation fine arts health science business industry children juvenile how to instruction

Death by Black Hole: And Other Cosmic Quandaries Neil deGrasse Tyson, 2007-11-17 Tyson tackles a great range of subjects with great humor humility and most important humanity Entertainment Weekly Loyal readers of the monthly Universe essays in Natural History magazine have long recognized Neil deGrasse Tyson s talent for

guiding them through the mysteries of the cosmos with clarity and enthusiasm Bringing together more than forty of Tyson s favorite essays *Death by Black Hole* explores a myriad of cosmic topics from what it would be like to be inside a black hole to the movie industry s feeble efforts to get its night skies right One of America s best known astrophysicists Tyson is a natural teacher who simplifies the complexities of astrophysics while sharing his infectious fascination for our universe

Science-fiction Everett Franklin Bleiler,Richard Bleiler,1998 *Complementing Science Fiction The Early Years* which surveys science fiction published in book form from its beginnings through 1930 the present volume covers all the science fiction printed in the genre magazines *Amazing Astounding* and *Wonder* along with offshoots and minor magazines from 1926 through 1936 This is the first time this historically important literary phenomenon which stands behind the enormous modern development of science fiction has been studied thoroughly and accurately The heart of the book is a series of descriptions of all 1 835 stories published during this period plus bibliographic information Supplementing this are many useful features detailed histories of each of the magazines an issue by issue roster of contents a technical analysis of the art work brief authors biographies poetry and letter indexes a theme and motif index of approximately 30 000 entries and general indexes *Science Fiction The Gernsback Years* is not only indispensable for reference librarians collectors readers and scholars interested in science fiction it is also of importance to the study of popular culture during the Great Depression in the United States Most of its data which are largely based on rare and almost unobtainable sources are not available elsewhere **The Video Source Book** David J. WEINER,1990 **The Software Encyclopedia 2000** Bowker Editorial Staff,2000-05 **The Chemical Engineer** ,2005 **Video Source Book** Gale Group,1999-10-28 A guide to programs currently available on video in the areas of movies entertainment general interest education sports recreation fine arts health science business industry children juvenile how to instruction *Forthcoming Books* Rose Arny,2003 *Who's who in America* ,1956 **Variety Film Reviews** ,1978 WHO'S WHO IN AMERICA THE A.N. MARQUIS COMPANY,1952

The Lost Elements Marco Fontani,Mariagrazia Costa,Mary Virginia Orna,2014-10-01 The Periodic Table of Elements hasn t always looked like it does now a well organized chart arranged by atomic number In the mid nineteenth century chemists were of the belief that the elements should be sorted by atomic weight However the weights of many elements were calculated incorrectly and over time it became clear that not only did the elements need rearranging but that the periodic table contained many gaps and omissions there were elements yet to be discovered and the allure of finding one had scientists rushing to fill in the blanks Supposed discoveries flooded laboratories and the debate over what did and did not belong on the periodic table reached a fever pitch With the discovery of radioactivity the discourse only intensified Throughout its formation the Periodic Table of Elements has seen false entries good faith errors retractions and dead ends In fact there have been more falsely proclaimed elemental discoveries throughout history than there are elements on the table as we know it today *The Lost Elements The Periodic Table s Shadow Side* collects the most notable of these instances

stretching from the nineteenth century to the present The book tells the story of how scientists have come to understand elements by discussing the failed theories and false discoveries that shaped the path of scientific progress We learn of early chemists stubborn refusal to disregard alchemy as a legitimate practice and of one German s supposed discovery of an elemental metal that breathed As elements began to be created artificially in the twentieth century we watch the discovery climate shift to favor the physicists rather than the chemists Along the way Fontani Costa and Orna introduce us to the key figures in the development of today s periodic table including Lavoisier and Mendeleev Featuring a preface from Nobel Laureate Roald Hoffmann The Lost Elements is an expansive history of the wrong side of chemical discovery and reveals how these errors and gaffes have helped shape the table as much as any other form of scientific progress **Superheavy** Kit Chapman,2019-08-27 The author takes an in depth look at how synthetic elements are discovered why they matter and where they will take us From the Cold War nuclear race to the present day scientists have stretched the periodic table to 118 elements They have broken the rules of the periodic table rewriting science and revolutionizing lives

Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Missing Alien Periodic Table Lab**

In a world inundated with monitors and the cacophony of instant conversation, the profound energy and psychological resonance of verbal art often fade in to obscurity, eclipsed by the regular assault of noise and distractions. Yet, set within the musical pages of **Missing Alien Periodic Table Lab**, a fascinating function of fictional elegance that pulses with organic feelings, lies an unforgettable trip waiting to be embarked upon. Published by a virtuoso wordsmith, this enchanting opus instructions viewers on a mental odyssey, gently revealing the latent possible and profound impact stuck within the complex web of language. Within the heart-wrenching expanse of this evocative evaluation, we shall embark upon an introspective exploration of the book is main subjects, dissect their captivating publishing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

https://crm.allthingsbusiness.co.uk/book/Resources/index.jsp/Mcse_Study_Guide_Free.pdf

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