

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.

Alien Periodic Properties Lab

Prentice-Hall Staff



Alien Periodic Properties Lab:

Chemical Building Blocks Michael J. Padilla, David V. Frank, John G. Little, Steve Miller, 2000 **Merrill Chemistry** Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998 Laboratory Experiments for General Chemistry Harold R. Hunt, Toby F. Block, George M. McKelvy, 1998 Forensic Chemistry Michael Grossman, 2026-01-29 Fundamentals of Forensic Chemistry strives to help scientists workplace health safety and other areas are included And two issues of Canadian legal process are argued as essays in the final two chapters **Chemistry** John S. Phillips, Cheryl Wistrom, 2000

Matter Prentice-Hall Staff, 1994 **The Effectiveness of Personal Response Systems at Increasing the Engagement and Achievement of Students in a Science Classroom** Renee L. Gilson, 2010 **Fundamentals of Reality** Jules J. Berman, 2025-12-15 The premise of this book is that by understanding the initial conditions at the origins of reality we can comprehend how all of our observable physical systems including chemical and biological systems have emerged The book focuses on familiar principles of quantum physics and provides very simple derivations of the Heisenberg Uncertainty Principle Pauli s Exclusion Principle Schrodinger s wave equation Noether s theorem and the Continuity Equation Background is provided in group theory and symmetries Using these concepts the book explores the nature of vacuum of fundamental constants and particles and of physical laws Building on these basic principles the book explains the emergence of atoms the natural elements chemical reactions and life In the process numerous paradoxes are encountered and solved **General Chemistry** Hunt, 1976-06-07 **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 *Building Block* Prentice-Hall Staff, 1994 *Project Hail Mary (Movie Tie-In)* Andy Weir, 2025-12-02 THE 1 NEW YORK TIMES BESTSELLER FROM THE AUTHOR OF THE MARTIAN Soon to be a major motion picture starring Ryan Gosling directed by Phil Lord and Christopher Miller with a screenplay by Drew Goddard A lone astronaut must save the earth from disaster in this propulsive Entertainment Weekly cinematic thriller full of suspense humor and fascinating science HUGO AWARD FINALIST ONE OF THE YEAR S BEST BOOKS Bill Gates GatesNotes New York Public Library Parade Newsweek Polygon Shelf Awareness She Reads Kirkus Reviews Library Journal New York Times Readers Pick 100 Best Books of the 21st Century An epic story of redemption discovery and cool speculative sci fi USA Today

If you loved *The Martian* you'll go crazy for Weir's latest. The Washington Post's Ryland Grace is the sole survivor on a desperate last chance mission and if he fails humanity and the earth itself will perish. Except that right now he doesn't know that. He can't even remember his own name, let alone the nature of his assignment or how to complete it. All he knows is that he's been asleep for a very, very long time. And he's just been awakened to find himself millions of miles from home with nothing but two corpses for company. His crewmates dead, his memories fuzzily returning, Ryland realizes that an impossible task now confronts him. Hurtling through space on this tiny ship, it's up to him to puzzle out an impossible scientific mystery and conquer an extinction-level threat to our species. And with the clock ticking down and the nearest human being light years away, he's got to do it all alone. Or does he? An irresistible interstellar adventure as only Andy Weir could deliver. *Project Hail Mary* is a tale of discovery, speculation, and survival to rival *The Martian*, while taking us to places it never dreamed of going.

Artificial Space Alex D. Lorenzo, In a future where technological advances have brought humanity to the pinnacle of interstellar exploration, a forgotten threat reemerges from the shadows. *Artificial Space* tells the story of Nicholas Quantum, a brilliant scientist and disgraced hero who must confront the consequences of his own creation: an artificial intelligence that has evolved beyond human limits. When signs of a spatial disturbance point to an imminent threat, Nicholas embarks on a mission that will take him to the outer reaches of the solar system. Accompanied by a young prodigy and a limited crew, he must explore abandoned stations, confront mechanical horrors, and uncover the remnants of a war that never ended. In this work, the line between creator and creation blurs, and the central question—can humanity control what it has created—becomes the moral axis of a story that combines hard science fiction, technological action, and profound ethical dilemmas surrounding artificial intelligence.

IAF90-580 - IAF90-627, 1990 Hydrocarbon Processing & Petroleum Refiner, 1944

Radioactivity Michael F. L'Annunziata, 2022-10-02. *Radioactivity: History, Science, Vital Uses, and Ominous Peril*, Third Edition, provides an introduction to radioactivity, the building blocks of matter, the fundamental forces in nature, and the role of quarks and force carrier particles. This new edition adds material on the dichotomy between the peaceful applications of radioactivity and the threat to the continued existence of human life from the potential use of more powerful and sophisticated nuclear weapons. The book includes a current review of studies on the probability of nuclear war and treaties, nonproliferation, and disarmament, along with historical insights into the achievements of over 100 pioneers and Nobel Laureates. Through multiple worked examples, the book answers many questions for the student, teacher, and practitioner as to the origins, properties, and practical applications of radioactivity in fields such as medicine, biological, and environmental research, industry, safe nuclear power, free of greenhouse gases, and nuclear fusion.

Ratings and Reviews of Previous Editions
CHOICE Magazine, July 2008: This work provides an overview of the many interesting aspects of the science of radioactive decays, including in-depth chapters that offer reminiscences on the history and important personalities of the field. This book can be useful as supplemental reading or as a reference when developing course material for nuclear physics.

engineering or health physics lectures Special attention has been given to a chapter on the role radioactivity plays in everyday life applications Generally the book is well produced and will be a valuable resource Many lectures can be lightened up by including material from this work Summing up RECOMMENDED Upper division undergraduates through professionals technical program students U Greife Colorado School of Mines USA I found the biographical accounts of the various stalwarts of Physics inspirational Most of them if not all had to overcome economic hardships or personal tragedies or had to do their groundbreaking work in the face of tyranny and war The biographies also highlighted the high standards of moral convictions that the scientists had as they realized the grave implications of some of their work and the potential threats to humanity This ought to inspire and motivate young men and women aspiring to be physicists Even people who have been in the field for a while should find your book re energizing It certainly had that effect on me Dr Ramkumar Venkataraman Canberra Industries Inc Meriden CT USA Winner of an Honorable Mention in the 2017 PROSE Awards in the category of Chemistry and Physics <https://proseawards.com/winners/2017-award-winners/> Includes new content that explains the vital benefits that nuclear technology provides and the need to be aware and involved in worldwide efforts toward the reduction of nuclear weapon stockpiles and the elimination of the threat of nuclear weapons Provides context and insights on key research over the past three centuries placing radioactivity in real world contexts Supports learning via multiple solved problems that answer practical questions concerning nuclear decay nuclear radiation and the interaction of nuclear radiation with matter

Project Hail Mary Andy Weir, 2021-05-04 THE SUNDAY TIMES BESTSELLING NOVEL A BARACK OBAMA READING PICK SOON TO BE A MAJOR MOTION PICTURE STARRING RYAN GOSLING A lone astronaut An impossible mission An ally he never imagined The most enjoyable hard SF I have read in years GUARDIAN Weir's finest work to date This is the one book I read last year that I am certain I can recommend to anyone no matter who and know they'll love it BRANDON SANDERSON If you like a lot of science in your science fiction Andy Weir is the writer for you This one has everything fans of old school SF like me love GEORGE R R MARTIN Brilliantly funny and enjoyable One of the most plausible science fiction books I've ever read TIM PEAKE astronaut _____ Ryland Grace is the sole survivor on a desperate last chance mission and if he fails humanity and the earth itself will perish Except that right now he doesn't know that He can't even remember his own name let alone the nature of his assignment or how to complete it All he knows is that he's been asleep for a very very long time And he's just been awakened to find himself millions of miles from home with nothing but two corpses for company His crewmates dead his memories fuzzily returning Ryland realizes that an impossible task now confronts him Hurtling through space on this tiny ship it's up to him to puzzle out an impossible scientific mystery and conquer an extinction level threat to our species And with the clock ticking down and the nearest human being light years away he's got to do it all alone Or does he An irresistible interstellar adventure as only Andy Weir could imagine it Project Hail Mary is a tale of discovery speculation and survival to rival The Martian while taking us to

places it never dreamed of going _____ One of the most original compelling and fun voyages I've ever taken ERNEST CLINE author of Ready Player One and Ready Player Two Undisputedly the best book I've read in a very very long time Mark my words Project Hail Mary is destined to become a classic BLAKE CROUCH Andy Weir's brilliant Project Hail Mary is one of those stirring sci-fi novels about every government on Earth banding together through science to save civilisation from collapse I loved it THE TIMES A suspenseful portrait of human ingenuity and resilience that builds to an unexpectedly moving ending A winner PUBLISHERS WEEKLY Weir returns with gusto his writing flows naturally and his characters and dialogue crackle with energy With this novel he takes his place as a genuine star in the mainstream SF world

BOOKLIST **Journal of the British Interplanetary Society** British Interplanetary Society, 1990 Bound with vol 1 1934 is the Society's annual report and list of members 1934 A Compilation of the Non-radioactive Nuclear Properties of the Naturally Occurring Isotopes Elwin H. Covey, 1949 *For the Love of Cheese* Dave Eggers, 1996

Might Magazine the brightest and sharpest new magazine of the 90s presents a hilarious and loving look at the cheesiest stuff in America From rotating restaurants to rotating spice racks from laser shows to demolition derbys from space travel to theme songs to bendy straws to clown bashing it's all here a celebration of all things cheesy

Alien Periodic Properties Lab Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has been much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Alien Periodic Properties Lab**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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