

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

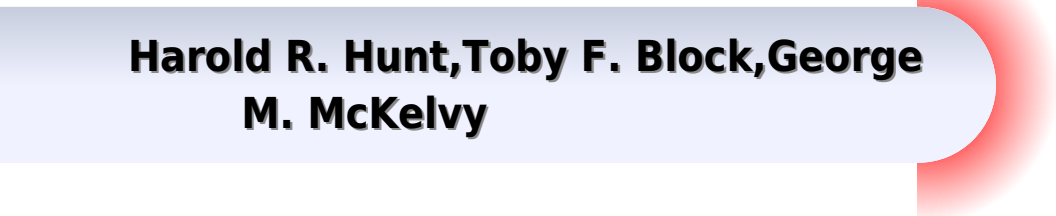
- periodic table for reference

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

**Harold R. Hunt, Toby F. Block, George
M. McKelvy**



Alien Periodic Properties Lab:

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 **Chemistry** John S. Phillips, Cheryl Wistrom, 2000 The Effectiveness of Personal Response Systems at Increasing the Engagement and Achievement of Students in a Science Classroom Renee L. Gilson, 2010 **Matter** Prentice-Hall Staff, 1994 **General Chemistry** Hunt, 1976-06-07 **Creating Life in the Lab** Fazale Rana, 2011-02-01 Each year brings to light new scientific discoveries that have the power to either test our faith or strengthen it most recently the news that scientists have created artificial life forms in the laboratory If humans can create life what does that mean for the creation story found in Scripture Biochemist and Christian apologist Fazale Rana for one isn't worried In *Creating Life in the Lab* he details the fascinating quest for synthetic life and argues convincingly that when scientists succeed in creating life in the lab they will unwittingly undermine the evolutionary explanation for the origin of life demonstrating instead that undirected chemical processes cannot produce a living entity **A World from Dust** Benjamin J. McFarland, 2016 In *A World From Dust* Ben McFarland brings together the latest genetic chemical mathematic and geological evidence to tell the story of how life has evolved on this planet over billions of years *The Routledge Companion to Science Fiction* Mark Bould, Andrew M. Butler, Adam Roberts, Sherryl Vint, 2009-03-30 *The Routledge Companion to Science Fiction* is a comprehensive overview of the history and study of science fiction It outlines major writers movements and texts in the genre established critical approaches and areas for future study Fifty six entries by a team of renowned international contributors are divided into four parts which look in turn at history an integrated chronological narrative of the genre's development theory detailed accounts of major theoretical approaches including feminism Marxism psychoanalysis cultural studies postcolonialism posthumanism and utopian studies issues and challenges anticipates future directions for study in areas as diverse as science studies music design environmentalism ethics and alterity subgenres a prismatic view of the genre tracing themes and developments within specific subgenres Bringing into dialogue the many perspectives on the genre *The Routledge Companion to Science Fiction* is essential reading for anyone interested in the history and the future of science fiction and the way it is taught and studied *Aliens Like Us?* Anthony Aveni, 2025-03-18 In this authoritative accessible and at times funny and irreverent work distinguished anthropologist Anthony Aveni speaks to the trained astrophysicist and the curious layperson alike about a simple but previously unexplored question Why do we assume aliens if they are really out there behave just like us Aveni's newest work departs from the usual scientific treatment of extraterrestrial intelligence by probing the historical and widely neglected anthropological record which offers relevant analogous incidents of contact among terrestrial cultures Beginning with theories of the evolution of life and culture advocated by astrobiologists *Aliens Like Us* explores how the Western cultural imagination is influenced by ways of knowing that are deeply embedded in the minds of the questioners for example how we

consider the ownership of property the idea of progress and even the way we classify things The lessons of anthropology offer not only value structures from other cultures that differ profoundly from our own but also testify to the diverse ways in which alien cultures interact Finally on the question of potential first contact Aveni closes with a fascinating exploration of the image of extraterrestrials in popular culture that is derived in part from the hugely influential realm of science fiction

This book delves into Alien Periodic Properties Lab. Alien Periodic Properties Lab is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Alien Periodic Properties Lab, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Alien Periodic Properties Lab
- Chapter 2: Essential Elements of Alien Periodic Properties Lab
- Chapter 3: Alien Periodic Properties Lab in Everyday Life
- Chapter 4: Alien Periodic Properties Lab in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Alien Periodic Properties Lab. The first chapter will explore what Alien Periodic Properties Lab is, why Alien Periodic Properties Lab is vital, and how to effectively learn about Alien Periodic Properties Lab.

3. In chapter 2, the author will delve into the foundational concepts of Alien Periodic Properties Lab. The second chapter will elucidate the essential principles that must be understood to grasp Alien Periodic Properties Lab in its entirety.

4. In chapter 3, the author will examine the practical applications of Alien Periodic Properties Lab in daily life. This chapter will showcase real-world examples of how Alien Periodic Properties Lab can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Alien Periodic Properties Lab in specific contexts. This chapter will explore how Alien Periodic Properties Lab is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Alien Periodic Properties Lab. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Alien Periodic Properties Lab.

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