

Constructing an Alien Periodic Table

Introduction

The structure of the Periodic Table is so readily explained in terms of quantum mechanics that it is sometimes difficult for students to appreciate the effort and genius of the scientists who put together its earliest versions. In this experiment, you are challenged to construct a Periodic Table for an alien environment, without the aid of quantum mechanics.

Principles

Imagine that you are the science officer on an intergalactic spacecraft, whose mission is to improve the level of scientific research on any planets you may encounter during your voyage. You have landed on Olam, a planet very similar to Earth. Some 50-odd elements are known on Olam. The study of these individual elements consumes most of the time of the Olamite chemists. Having an effective method for classifying these elements in families would give cohesion to Olamite chemical knowledge. Olamite chemists hope that mastering the properties of 10 or 20 families would be simpler than having to worry about the properties and reactions of 54 elements. They have presented you with their accumulated knowledge as shown in Tables 4.1 through 4.4. Can you help them develop an Olamite Periodic Table?

Table 4.1 The Olamite Elements

Name	Symbol	Atomic Mass	State*	Type†
Acidium	Ac	27	G (triatomic)	NM
Akumena	Ak	38	S	M
Alstevium	Av	115	S	NM
Amberin	Am	35	S	M
Aquagen	Aq	2	G (triatomic)	NM
Ashkenazim	Az	111	S	SM
Ashon	As	62	S	M
Badgerin	Bd	90	S	M
Boring	Br	120	L	NM
Brooklin	Bk	93	S	M
Charmeshan	Ch	80	S	M
Chrisrossium	Cr	84	S	M
Colonan	Cn	75	S	M
Corana	Co	14	S	M

Alien Periodic Table Analyze And Conclude Answers

ML Morrison



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Atoms, Molecules & Elements: Patterns In the Periodic Table Gr. 5-8 George Graybill,2015-10-01 This is the chapter slice Patterns In the Periodic Table from the full lesson plan Atoms Molecules Elements Young scientists will be thrilled to explore the invisible world of atoms molecules and elements Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary Students will label each part of the atom learn what compounds are and explore the patterns in the periodic table of elements to find calcium Ca chlorine Cl and helium He through hands on activities These and more science concepts are presented in a way that makes them more accessible to students and easier to understand Written to grade and using simplified language and vocabulary and comprised of reading passages student activities crossword word search comprehension quiz and color mini posters our resource can be used effectively for test prep and your whole class All of our content is aligned to your State Standards and are written to Bloom s Taxonomy and STEM initiatives

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