

Name _____ Period _____

Lab – Alien Periodic Table

You are a part of a collection of scientists who have been chosen to assist a group of alien scientists. In order to be able to converse scientifically, you must learn their language, and most importantly, you must arrange their elements according to the trends that exist in the periodic table. Below are clues for the alien's elements. So far, the aliens have only discovered elements in groups 1, 2, and 13-18, and periods 1-5. Although the names of the elements are different, they must correspond to our elements if our belief of universal elements holds true. Read each clue carefully, and then place the symbol for that clue's element in the blank periodic table provided.

Alien Periodic Table

	1						18
1							
2		2					
3							
4							
5							

Alien Element Descriptions

- The inert gases are Bombal (Bo), Wobble (Wo), Jeptum (J), and Logon (L). Bombal (Bo) is a noble gas but does not have 8 valence electrons. The outside energy level of Logon (L) is its second energy level. Of these noble gases, Wobble (Wo) has the greatest atomic mass.
- The alkali metals are Xtalt (X), Byyou (By), Chow (Ch), and Quackzil (Q). Of these alkali metals, Chow (Ch) has the lowest atomic mass. Quackzil (Q) is in the same period as Wobble (Wo).
- The halogens are Apstrom (A), Vulcania (V), and Kratt (Kt). Vulcania (V) is in the same period as Quackzil (Q) and Wobble (Wo).
- The metalloids are Ernst (E), Highho (Hi), Terriblum (T), and Sississ (Ss). Sississ (Ss) is the metalloid with the highest atomic mass. Ernst (E) is the metalloid with the lowest atomic mass. Highho (Hi) and Terriblum (T) are in group 14. T has more protons than Hi. The element Yazzer (Yz) is a metalloid by location, but has properties that suggest it is a light metal.
- The most metallic element on the planet is called Xtalt (X). The most chemically active nonmetal on the planet is called Apstrom (A). The lightest element on the planet is called Pfisst (Pf). The heaviest element on the planet is Elrado (El) and it is radioactive.

Alien Periodic Table Skills Lab Answer Key

Lei Shi

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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