

Study Guide – Unit 1 Periodic Table **ANSWERS**

Structure of an atom

- List the three subatomic particles which make up an atom. Include their location, charge, and atomic mass.

a. Electron	Negative charge	Electron Cloud
b. Proton	Positive charge	Nucleus
c. Neutron	Neutral charge	Nucleus
- In a neutral atom, which two subatomic particles are equal in number to each other?
Protons and Electrons
- What does the atomic number of an element indicate?
The number of protons in the atom of that element
- What is an isotope?
Atoms with the same number of protons, but different masses due to a different number of neutrons
- Will two different atoms of carbon always have the same number of protons?
Yes

Element mit Key

13
Al
26.982
Aluminum

1. What are the number of protons, neutrons, and electrons in an atom of aluminum?
- a. Protons = 13
 - b. Neutrons = 14
 - c. Electrons = 13

Bohr Model

- How do you know how many energy levels (orbits) a Bohr model will have?
a. By the period the element is located in
- How many electrons can each energy level hold?
1st - 2 2nd - 8 3rd - 18

The Periodic Table

1. How is the periodic table arranged? **Increasing atomic number**
2. What are the vertical columns $\updownarrow$ called? **Groups or Families**
3. What are the horizontal rows $\leftrightarrow$ called? **Periods**
4. Why are elements put into groups? **Same number of valence electrons**
5. What is a valence electron? **Number of electrons on the outer energy level (shell)**
6. Know how many valence electrons each group has
7. Which group of metals are highly reactive and why? **Alkali Metals. Only 1 ve to lose**
8. Which group of non-metals are highly reactive and why? **Halogens. Only 1 ve to gain**
9. Name some physical properties of metals: **luster, ductile, malleable, conductor of heat and electricity**
10. Name some physical properties of non metals: **no luster, brittle, not a good conductor**
11. What are metalloids and where are they found on the periodic table? **Share properties of metals and metalloids. On zig-zag line starting at Boron.**

Periodic Table Study Guide Answers

Arshad Iqbal



Periodic Table Study Guide Answers:

Periodic Table Study Guide Answers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Periodic Table Study Guide Answers**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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