

## CHAPTER 6

## STUDY GUIDE

## Ionic Compounds and Metals

## Lesson 6.1 Ion Formation

In your textbook, read about chemical bonds and formation of ions.

Use each of the terms below just once to complete the passage.

chemical bond	electrons	energy level	ions	noble gases
nucleus	octet	pseudo-noble gas formations	valence	

The force that holds two atoms together is called a(n) (1) Chemical Bond. Such an attachment may form by the attraction of the positively charged (2) Nucleus of one atom for the negatively charged (3) Electron of another atom, or by the attraction of charged atoms, which are called (4) Ions. The attractions may also involve (5) Valence electrons, which are the electrons in the outermost (6) Energy level. The (7) Noble Gas are a family of elements that have very little tendency to react. Most of these elements have a set of eight outermost electrons, which is called a stable (8) Octet. The relatively stable electron structures developed by loss of electrons in certain elements of groups 3, 4, 13, and 14 are called (9) Pseudo-Noble gas formations.

For each statement below, write *true* or *false*.

- |                          |  |
|--------------------------|--|
| <u>False</u>             | 10. A positively charged ion is called an anion.   |
| <u>True</u>              | 11. Elements in group 1 lose their one valence electron, forming an ion with a 1+ charge.                    |
| <u>False</u><br>halogen. | 12. Elements tend to react so that they acquire the electron structure of a                                  |
| <u>True</u>              | 13. A sodium atom tends to lose one electron when it reacts.   |
| <u>True</u>              | 14. The electron structure of a zinc ion ( $\text{Zn}^{2+}$ ) is an example of a pseudo-noble gas formation. |
| <u>False</u>             | 15. A $\text{Cl}^-$ ion is an example of a cation.   |
| <u>True</u>              | 16. The ending <i>-ide</i> is used to designate an anion.  |
| <u>False</u>             | 17. Nonmetals form a stable outer electron configuration by losing electrons and becoming anions.            |

# Answer Study Guide Ionic Compounds And Metals

**Thomas Elliott Taylor**



## **Answer Study Guide Ionic Compounds And Metals:**

Hazmat Chemistry Study Guide (Second Edition) Jill Meryl Levy, 2011      *Chemistry, Student Study Guide* James E. Brady, Fred Senese, 2008-01-28 The image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon as it forms around particles of a metal catalyst Carbon nanotubes are a recently discovered allotrope of carbon Three other allotropes of carbon buckyballs graphite and diamond are illustrated at the left as is the molecule methane  $\text{CH}_4$  from which nanotubes and buckyballs can be made The element carbon forms an amazing number of compounds with structures that follow from simple methane found in natural gas to the complex macromolecules that serve as the basis of life on our planet The study of chemistry also follows from the simple to the more complex and the strength of this text is that it enables students with varied backgrounds to proceed together to significant levels of achievement

*Study Guide and Solutions Manual for Fundamentals of General, Organic, and Biological Chemistry* Susan McMurry, 1992

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