energy level

# CHAPTER 7 STUDY GUIDE

# Ionic Compounds and Metals

#### Section 7.1 Ion Formation

chemical bond

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

electrons

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

becoming anions.

nucieus	OCICE	pseudo-noble gas formations	Villence
The force	that holds two atoms together	is called a(n) (1)	
Such an attac	hment may form by the attract	tion of the positively charged	
(2)	of one atom for the negatively charged		
(3)	of another atom, or by the attraction of charged atoms, which are called		
	. The attractions may also involve		
(5)	electrons, whi	ch are the electrons in the outermost	
(6)	. The (7)	are a family of elements	that have very
little tendenc	y to react. Most of these eleme	ents have a set of eight outermost electrons,	, which is called a
stable (8)	. The relatively stable electron structures developed by loss of		
electrons in c	certain elements of groups 3, 4,	, 13, and 14 are called (9)	
For each sta	tement below, write true or f	alse.	
	<ol> <li>A positively charged ion is called an anion.</li> </ol>		
	<ol> <li>Elements in group 1 lose their one valence electron, forming an ion with a 1+ charge.</li> </ol>		
	12. Elements tend to react so that they acquire the electron structure of a		of a halogen.
	<ol> <li>A sodium atom tends to lose one electron when it reacts.</li> </ol>		
	14. The electron structure formation.	e of a zinc ion (Zn22) is an example of a pse	rudo- noble gas
	15. A Cl <sup>-</sup> ion is an examp	ole of a cation.	
	16. The ending -ide is us	ed to designate an anion.	
	17 Nonmetals form a sta	ble outer electron configuration by losing	electrons and

noble gases.

BOOK

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

**J Spring** 

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