

## CHAPTER 7

## STUDY GUIDE

## Ionic Compounds and Metals

### Section 7.1 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) \_\_\_\_\_.

Such an attachment may form by the attraction 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

(4) \_\_\_\_\_. The attractions may also involve

(5) \_\_\_\_\_ electrons, which are the electrons in the outermost

(6) \_\_\_\_\_. The (7) \_\_\_\_\_ 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) \_\_\_\_\_. The relatively stable electron structures developed by loss of

electrons in certain elements of groups 3, 4, 13, and 14 are called (9) \_\_\_\_\_.

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

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

# Answer Study Guide Ionic Compounds And Metals

**Puja Mehta**

A decorative graphic consisting of a red circular shape with a white center, partially obscured by a white horizontal bar.

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