

**7****IONIC AND METALLIC BONDING****Vocabulary Review**

Match the correct vocabulary term to each numbered statement. Write the letter of the correct term on the line.

**Column A**

- \_\_\_\_\_ 1. compounds composed of cations and anions
- \_\_\_\_\_ 2. the attraction of free-floating valence electrons for positively charged metal ions
- \_\_\_\_\_ 3. the lowest whole-number ratio of ions in an ionic compound
- \_\_\_\_\_ 4. the electrostatic attraction that binds oppositely charged ions together
- \_\_\_\_\_ 5. the number of ions of opposite charge that surround the ion in a crystal
- \_\_\_\_\_ 6. negatively charged ions
- \_\_\_\_\_ 7. shows the kinds and numbers of atoms in the smallest representative unit of a substance
- \_\_\_\_\_ 8. a diagram that shows valence electrons as dots
- \_\_\_\_\_ 9. a negative ion formed when a halogen atom gains an electron
- \_\_\_\_\_ 10. In forming compounds, atoms tend to react so as to acquire the stable electron configuration of a noble gas.
- \_\_\_\_\_ 11. electrons in the highest occupied energy level of an element's atoms.
- \_\_\_\_\_ 12. a mixture of two or more elements, at least one of which is a metal
- \_\_\_\_\_ 13. positively charged ions

**Column B**

- a. chemical formula
- b. valence electrons
- c. electron dot structure
- d. octet rule
- e. halide ion
- f. formula unit
- g. ionic bonds
- h. coordination number
- i. metallic bonds
- j. ionic compounds
- k. alloy
- l. anions
- m. cations