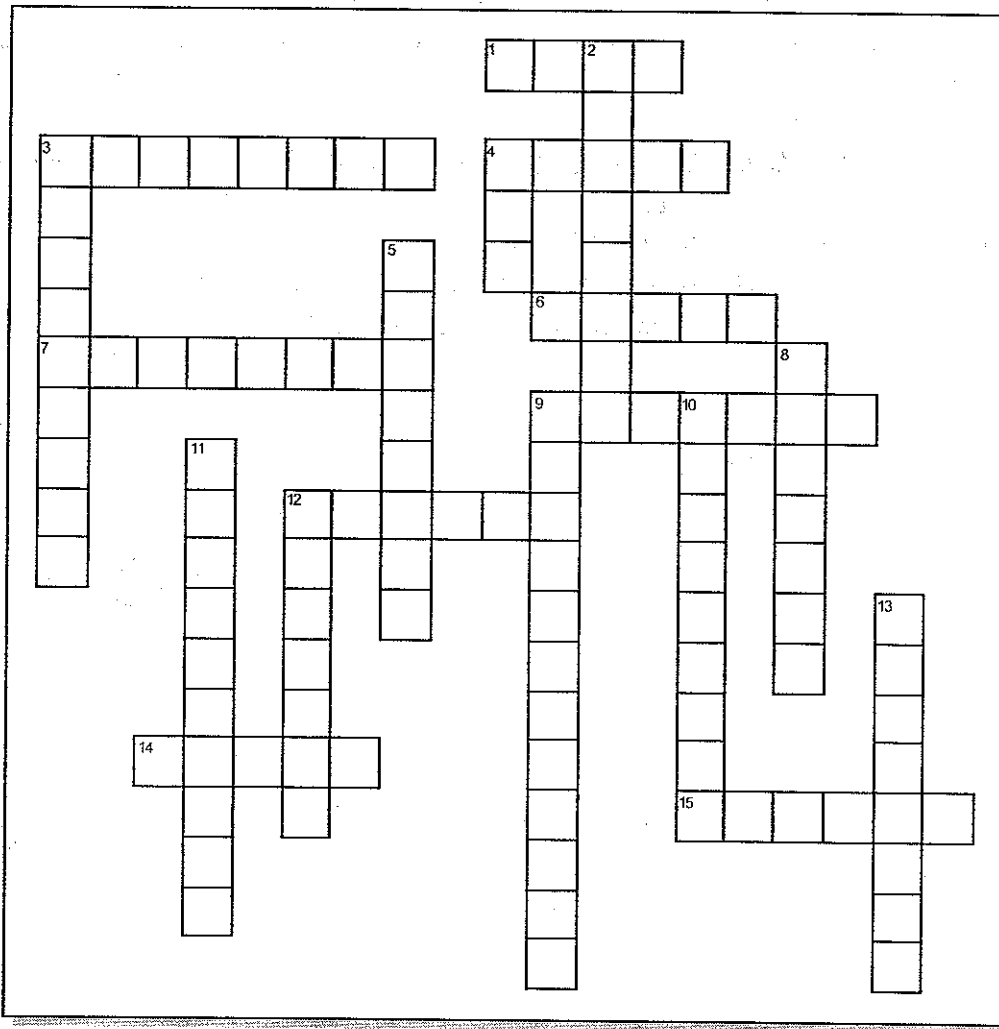


Chapter 5 Atoms and Bonding

Instructions: Complete the crossword puzzle. Use the clues to help identify the words.



Across

- 1. ionic ____: The attraction between oppositely charged ions.
- 3. ____ bond: An attraction between a positive metal ion and the electrons surrounding it.
- 4. ____ compound: A compound that consists of positive and negative ions.
- 6. A mixture of two or more elements, one of which is a metal.
- 7. ____ formula: A combination of symbols that represents the elements in a compound and their proportions.
- 9. An orderly; three dimensional pattern of ions or atoms in a solid.
- 12. ____ bond: A chemical bond formed when atoms share two pairs of electrons.
- 14. ____ bond: A covalent bond in which electrons are shared unequally.
- 15. ____ bond: A chemical bond formed when atoms share three pairs of electrons.

Down

2. ____ bond: A covalent bond in which electrons are shared equally.
3. ____ compound: A compound that is composed of molecules.
4. An atom or group of atoms that has become electrically charged.
5. A neutral particle made of two or more atoms joined by covalent bonds.
8. ____ electrons: The electrons that are in the highest energy level of an atom and that are involved in chemical reactions.
9. The force that holds atoms together. (Two words)
10. A number in a chemical formula that tells the number of atoms in a molecule or the ratio of elements in a compound
11. ____ ion: An ion that is made of more than one atom.
12. electron dot ____: A representation of the valence electrons in an atom, using dots.
13. ____ bond: A chemical bond formed when two atoms share electrons.