Name:
Section: $\qquad$
Self Assessment - Chemical Bonds and Reactions
Directions: Consider each of the following objectives and use the rating scale below to rate yourself based on how well you think you understand or can explain the objective.

|  | Complete understanding and/or knowledge of objective |  |
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| Objective | Pre-Lesson Rating | Post-Lesson Rating |
| 1. Describe valence electrons and identify their significance when it comes to chemical bonding and reactions. |  |  |
| 2. Describe the "tricks" to using the periodic table to determine the number of valence electrons. |  |  |
| 3. Explain the Octet Rule. |  |  |
| 4. Describe Lewis Structures (electron dot diagrams) and how they are used. |  |  |
| 5. Distinguish between the different types of chemical bonds (ionic, covalent, metallic). |  |  |
| 6. Describe the results of bonding - compounds \& molecules. |  |  |
| 7. Explain chemical reactions, what affects them, and the different types (exothermic \& endothermic). |  |  |
| 8. Differentiate between the physical and chemical properties of matter |  |  |
| 9. Identify examples of physical and chemical changes. |  |  |
| 10. Identify chemical equations and their components. |  |  |
| 11. Describe the laws that relate to chemical reactions - Law of Conservation of Mass/Matter \& Law of Conservation of Energy. |  |  |

Directions: At this point, you have identified how well you understood the objectives for this topic prior to the lesson and after the lesson. Since you will be taking an assessment on this information in the near future, it is now necessary for you to identify objectives that may still need some reviewing. For each objective that does not have a rating of four or five, list the objective below and explain what you are still having difficulty understanding. Take some time to revisit/review any resource materials that will help improve your understanding.

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