

Name: _____

Date: _____

Valence Electrons and Bonding

1. When we say that two atoms **bond** with each other, what do we mean? _____

2. What particles in an atom are directly involved in bonding? _____

3. Why do certain atoms want to bond with other atoms? _____

4. Use your periodic table to draw a dot diagram of Neon below:

of protons: _____

of electrons: _____

of neutrons: _____

5. Why is an atom of Neon usually found alone in nature? _____

6. What is an ionic bond? _____

7. Use the space below to draw a dot diagrams of one atom of Lithium and one atom of Fluorine and show how an ionic bond will occur between them.

8. Is this a strong bond? Why or why not? _____

9. What is a covalent bond? _____

10. Use the space below to draw dot diagrams for two atoms of hydrogen and show how a covalent bond will occur between them.

11. Is this a strong bond? Why or why not? _____

