Chemistry Name: _____

Section ____ LEWIS DOT STRUCTURES WS Date: _____

Lewis Dot Diagrams

Lewis electron dot diagrams are another way to indicate the number of valence electrons around an atom. Draw Lewis dot diagrams for each of the following atoms.

1. calcium
2. potassium
3. neon
4. aluminum
5. bromine
6. carbon
7. helium
8. oxygen
9. boron
10. hydrogen

Chemistry Name: _____

Section _____ VALENCE ELECCTRONS WS Date: _____

Valence Electrons

Valence electrons are the electrons in the outertmost principal energy level. There can be up to eight electrons in the valence shell. The number of valence electrons in a neutral atom is always the last number in the electron configuration. If the particle is an ion, the number of valence electrons must be adjusted to reflect that change.

Determine the number of valence electrons for each particle below, then draw the Lewis dot structure.

1. fluorine _____
2. phosphorus _____
3. calcium ion _____
4. nitrogen _____
5. iron (II) ion _____
6. argon _____
7. potassium ion _____
8. helium _____
9. magnesium _____
10. sulfur _____
11. lithium ion _____
12. fluoride ion _____
13. bromide ion _____
14. iodine _____
15. arsenic _____
16. oxide ion _____
17. aluminum ion _____
18. hydrogen ion _____
19. iodide ion _____
20. copper _____