

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Warm Up 75

**Chemistry**

**Describe** the following terms.

valence electrons –

Lewis dot symbol –

octet rule –

**Directions:** Determine the number of valence electrons for the following elements.

\_\_\_\_\_ H    \_\_\_\_\_ O    \_\_\_\_\_ C    \_\_\_\_\_ P    \_\_\_\_\_ B    \_\_\_\_\_ F    \_\_\_\_\_ Na

**Directions:** Determine the possible charge of the following elements.

\_\_\_\_\_ H    \_\_\_\_\_ O    \_\_\_\_\_ C    \_\_\_\_\_ P    \_\_\_\_\_ B    \_\_\_\_\_ F    \_\_\_\_\_ Na

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Warm Up 76

**Chemistry**

**Directions:** Determine the number of valence electrons in the following elements.

\_\_\_\_\_ Al    \_\_\_\_\_ C    \_\_\_\_\_ O    \_\_\_\_\_ N    \_\_\_\_\_ Ca    \_\_\_\_\_ Li    \_\_\_\_\_ Na    \_\_\_\_\_ F

**Draw** the electron dot diagram for the following:

|               |              |             |               |
|---------------|--------------|-------------|---------------|
| aluminum atom | carbon atom  | oxygen atom | nitrogen atom |
| calcium atom  | lithium atom | sodium atom | fluorine atom |