

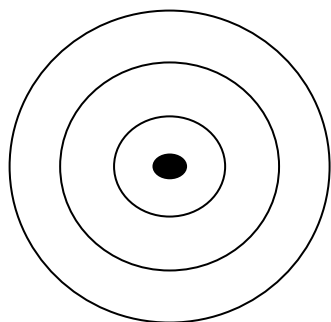
Name \_\_\_\_\_

Period \_\_\_\_\_

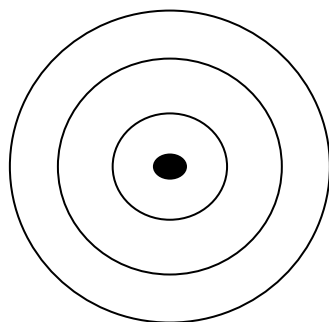
Date \_\_\_\_\_

## BOHR MODEL WORKSHEET

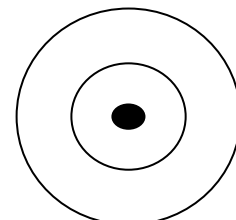
For each element draw the **inner electrons blue** & the **valence (outer) electrons red**.  
The circles represent **possible** electron shells.



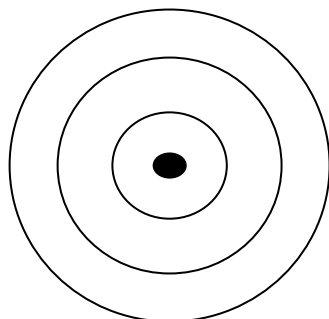
Sodium (Na) \_\_\_\_\_



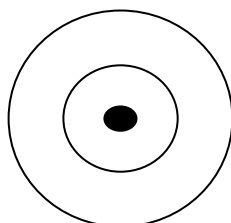
Aluminum (Al) \_\_\_\_\_



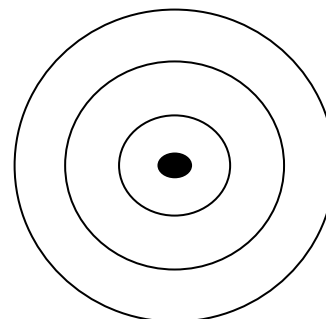
Carbon (C) \_\_\_\_\_



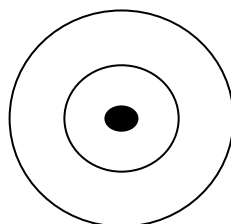
Silicon (Si) \_\_\_\_\_



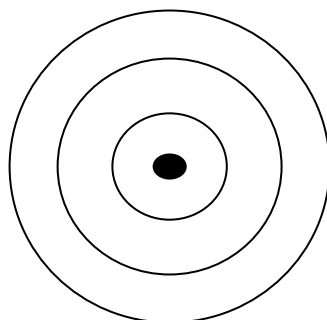
Oxygen (O) \_\_\_\_\_



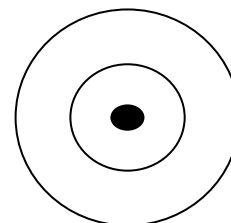
Chlorine (Cl) \_\_\_\_\_



Fluorine (F) \_\_\_\_\_



Phosphorus (P) \_\_\_\_\_



Lithium (Li) \_\_\_\_\_

Name \_\_\_\_\_

Period \_\_\_\_\_

Date \_\_\_\_\_

## The Structure of Atoms

Complete the table

| Sub-atomic Particle | Symbol | Location in the atom | Mass of particle |
|---------------------|--------|----------------------|------------------|
| Proton              |        |                      |                  |
| Neutron             |        |                      |                  |
| Electron            |        |                      |                  |

1. What two sub-atomic particles are located in the nucleus of the atom?
2. What is the difference between the atomic number & the mass number of an element?
3. Where is the majority of the mass located in an atom?

Complete the table; the first two rows have been done for you. Use your periodic table to complete the rest.

| Element  | Symbol | Protons | Neutrons | Electrons |
|----------|--------|---------|----------|-----------|
| Lithium  | Li     | 3       | 7-3=4    | 3         |
| carbon   | C      | 6       | 12-6=6   | 6         |
| Sodium   |        |         |          |           |
| Aluminum |        |         |          |           |
|          | Pb     |         |          |           |
|          | Ti     |         |          |           |
|          | Zn     |         |          |           |
|          |        | 80      |          |           |
|          |        |         |          | 17        |
| Tungsten |        |         |          |           |