

**Worksheet 2 - Atoms, Molecules and their Names**

**You must memorize the names and charges in tables 2.3-2.8.**

Use your Periodic Table to answer the following questions.

1. What is the name of each of the following Groups?

Group I \_\_\_\_\_ Group VII \_\_\_\_\_

Group II \_\_\_\_\_ Group VIII \_\_\_\_\_

The Group in the middle \_\_\_\_\_

2. The Period 3 Halogen is \_\_\_\_\_.

The Period 2 Alkaline Earth Metal is \_\_\_\_\_.

The Period 5 Noble gas is \_\_\_\_\_.

The Period 6 Alkali Metal is \_\_\_\_\_.

The lightest Transition Metal is \_\_\_\_\_.

3. Using the Periodic Table, fill in the missing information in the chart, below.

| Symbol | atomic mass | protons | neutrons | electrons | charge |
|--------|-------------|---------|----------|-----------|--------|
| W      | 184         |         |          |           | 2+     |
|        |             | 35      | 45       |           | 0      |
|        | 197         |         | 118      | 78        |        |
|        | 128         | 52      |          | 54        |        |

4. Which is more abundant,  $^{72}\text{Ge}$  or  $^{73}\text{Ge}$ , assuming that these are its only two isotopes?

5. In nature, 20.3% of Boron exists as Boron-10 and the remainder is Boron-11. What is the average atomic mass of Boron?