Name:

Problem 1

Given the masses and abundances of isotopes listed below, what is the atomic weight of Gallium?

⁶⁹ Ga	⁷¹ Ga
68.925581	70.924705
60.108%	39.892%
	68.925581

A.W. = 68.925581 AMU. 60.108% + 70.924705 AMU. 39.892% =69.723 AMU

Problem 2

Classify each of the following elements as a metal, non-metal, or metalloid

- Carbon nonmetal Main group
 Samarium metal inner transition metal
- · Aluminum Metal Main group
- · Arsenic Metalloid main group
- · Sulfur nonmetal main group
- · Antimony Metalloid make proup
- · Potassium Motal Main group

Problem 3

Give the name of the family for each of the following elements

- o Chlorine Halouen
- · Neon Noffe gases · Sulfur Chalcogens

- Main group

Problem 4

For each of the elements above, also classify them as being in the main group, transition metals, or inner transition metals