

## Quiz 2.2 – Periodic Table

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

**Problem 1**

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

	$^{69}\text{Ga}$	$^{71}\text{Ga}$
Mass (amu)	68.925581	70.924705
Abundance (%)	60.108%	39.892%

**Problem 2**Classify each of the following elements as a *metal*, *non-metal*, or *metalloid*

- Carbon
- Samarium
- Aluminum
- Arsenic
- Sulfur
- Antimony
- Potassium

**Problem 3**

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

- Chlorine
- Lithium
- Neon
- Sulfur
- Magnesium

**Problem 4**For each of the elements above, also classify them as being in the *main group*, *transition metals*, or *inner transition metals*

七步詩 (*The Quatrain of Seven Steps*)

By 曹植 (Cao Zhi)

煮豆燃豆其  
漉菽以為汁  
其在釜下燃  
豆在釜中泣  
本是同根生  
相煎何太急

People burn the beanstalk to boil beans,  
filtering them to extract juice.  
The beanstalks were burnt under the cauldron,  
and the beans in the cauldron wailed:  
“We were originally grown from the same root;  
Why should we hound each other to death with such impatience?”