

# Atomic HW # 1 name: \_\_\_\_\_



	atomic number	atomic mass	# protons	# neutrons	# electrons	element symbol	GROUND STATE electron configuration
1	9			10			
2							2-8-3
3			14	14			
4		48		26			
5							2-8-1
6		75	33				
7	8						
8						Zn	
9			56				
10						In	
11							2-8-18-32-18-2

12. Define Metalloid: There are 9 atoms that touch the staircase on the periodic table, list them in the boxes at right.

2 of them are not metalloids (they are only metals)

Circle the 2 symbols of the pure metals.

How will you remember these two?  
What is the "DOG FOOD" memory aid?


# Atomic HW # 2

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



You must have your periodic table out to do this HW. What group is called the

Alkaline Earth Metals? \_\_\_\_\_ Halogens \_\_\_\_\_ Alkali Metals \_\_\_\_\_ Noble Gases \_\_\_\_\_

Where are the INNER Transitional metals? \_\_\_\_\_

Where are the TRANSITIONAL metals? \_\_\_\_\_

List the symbols of the METALLOIDS (7) \_\_\_\_\_

What does the “DOG FOOD” exception mean?

On the table, the left to right rows are called the \_\_\_\_\_, there are \_\_\_\_\_ of them.

On the periodic table there are columns called the \_\_\_\_\_, and there are \_\_\_\_\_ of these

List ALL of the non-metal atom symbols There are too many boxes here, just saying.


How many different elements are on the periodic table? \_\_\_\_\_

How many are metals? \_\_\_\_\_

What elements are in...

Period 6, group 9 \_\_\_\_\_ Period 3, group 14 \_\_\_\_\_ Period 5, group 11 \_\_\_\_\_

Period 1, group 18 \_\_\_\_\_ Period 2, group 13 \_\_\_\_\_ Period 4, group 8 \_\_\_\_\_

# Atomic Theory HW #3

name: \_\_\_\_\_



Atoms with the same number of protons & electrons, but different numbers of neutrons are called \_\_\_\_\_

The accepted values for atomic mass and abundance for the naturally occurring isotopes of silicon are at right.

Calculate the average weighted atomic mass for silicon. Use the “isotope mass”, not the “symbol” for the math.

Isotope Symbol	Isotope Mass	Natural Abundance
Si-28	27.98 amu	92.23%
Si-29	28.98 amu	4.69%
Si-30	30.41 amu	3.08%

How many protons, neutrons and electrons are in the isotope manganese-57?

How many protons, neutrons and electrons are in the isotope molybdenum-96?

How many protons, neutrons and electrons are in the isotope rubidium-87?

Parts of an Atom	Mass in AMU	LOCATION in atom	Charge
Neutrons			
Electrons			
Protons			