

Atomic HW # 1

name: _____



	atomic number	atomic mass	# protons	# neutrons	# electrons	element symbol	GROUND STATE electron config
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.

2 of them are not metalloids (they are 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 number are the

Alkaline Earth Metals

Halogens

Alkali Metals

Noble Gases

Where are the INNER Transitional metals?

Where are the TRANSITIONAL metals?

On the Periodic Table...

the rows going left to right are called _____, and there are ____ of them.

The columns called the _____, and there are ____ of these.

List ALL the non-metal atom symbols from LOWEST atomic number to highest.

Note: there are too many boxes here, just saying.

How many 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: _____

Ψ

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

These are the accepted values for atomic mass and abundance for the naturally occurring isotopes of silicon.

Calculate the average weighted atomic mass for silicon.

(Use the "isotope mass" with decimal AMU's, not the "symbol" for the math.)

Isotope Symbol	Mass AMU	Natural proportion
Si-28	27.98	92.23%
Si-29	29.98	4.69%
Si-30	30.41	3.08%

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

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

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

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