

**I'm not a robot!**



## ATOMIC STRUCTURE WORKSHEET

Complete the table. There is enough information given for each element to determine all missing numbers.

Symbol	Atomic Number	Mass Number	Number of Protons	Number of Electrons	Number of Neutrons
$^{23}\text{Na}$					
K		40		19	
			38	38	52
F					10
	20	41		18	
	50			50	72
$^{131}\text{I}$					
$^{26}\text{Mg}$					
	109	47	47	46	
	1	2		1	
$^{36}\text{S}$					
	26			23	32
$^{27}\text{Al}$					
	2	4		2	
Cr		53			

Atomic Structure Data Sheet			
Element	Dense	Volume	Chadwick
Rutherford	Bohr	Atoms	Beta
Wise Model	Neutrons	Nucleus	Alpha particle
Electron	Model	Energy levels	Electric field
Total			

Atomic Statistics Chart Worksheet

Name KEY \_\_\_\_\_  
Date \_\_\_\_\_ Period \_\_\_\_\_

Definitions:

- 1) Atomic number Represents the number of protons in an atom's nucleus.
- 2) Isotopes Atoms of the same element with different masses.
- 3) mass number Total of protons and neutrons in an atom.
- 4) average atomic mass A weighted average of the different isotopic masses of an element's atoms
- 5) proton Subatomic particle with a mass of 1 AMU and a charge of +1
- 6) electron Subatomic particle with a mass of 0 AMU and a charge of -1

7) Complete this chart for the following NEUTRAL atoms using your periodic table:

Element	Nuclear Symbol	Electrons	Protons	Neutrons	Isotope Name	Atomic Number	Mass Number
Xenon	$^{133}_{54}\text{Xe}$	54	54	79	xenon-133	54	133
Iodine	$^{126}_{53}\text{I}$	53	53	73	iodine-126	53	126
Tin	$^{120}_{50}\text{Sn}$	50	50	70	Tin-120	50	120
gold	$^{200}_{79}\text{Au}$	79	79	121	gold-200	79	200
mercury	$^{200}_{80}\text{Hg}$	80	80	120	mercury-200	80	200
Sodium	$^{22}_{11}\text{Na}$	11	11	11	sodium-22	11	22

8) Copper has 2 main isotopes, Cu-63 and Cu-65. Look up copper's atomic mass on the periodic table.

- a) Which isotope, Cu-63 or Cu-65, is most abundant in nature? Cu-63
- b) Explain how you can tell. The average atomic mass is closest to the Cu-63 isotope mass indicating Cu-63 has the highest percentage

9) Boron has 2 main isotopes, Boron-10 and Boron-11. Which isotope is more abundant in nature and how can you tell?

B-11 is more abundant.  
I can tell by comparing the mass numbers of the isotopes with the average atomic mass on P.T.

Atomic Theory Timeline Poster NAME: \_\_\_\_\_

Key	
Dense Gas 40 B.C.	"Round Sphere" - matter composed mostly of particles called atoms and the non-living part atoms are indestructible and impermeable
Dalton 1801	Demand Dalton Model - atoms are very small, indestructible objects
Goldstein 1854	Cathode Ray - an electric ray is a beam of positive rays that is caused by certain types of gas discharge tubes
J.J. Thomson 1897	Plum Pudding Model - determined that the atom was made of smaller particles, a positive core with negatively charged particles throughout
Einstein 1905	Photo Electric Effect - when electrons are "emitted" from the surface of a metal, a photon is absorbed to emit energy of light energy
Milikan 1909	Falling drop method - determined the charge of an electron and that quantity was constant for all electrons
Rutherford 1911	Planetary Model - the Gold Foil Experiment determined that the atom has a dense, positively charged nucleus with a cloud of electrically charged particles surrounding the nucleus
Bohr 1913	Bohr's Model - electrons have a stable orbit around the nucleus in fixed size and energy
Schrodinger 1926	Electron Cloud Model - a dense nucleus surrounded by an electron cloud at various levels (orbital)
Chadwick 1932	Neutrons - determined that atomic charge is neutral but did have mass or presence, positive and negative attracted for the mass of the atom



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