 Summarize the John Dalton 	results of the work by:			
(B) JJ Thompson				
(C) Rutherford				
(D) Millikan				
2. Provide the miss	sing name or symbol for the f	ollowing elements: (The	first row is done for you.)
Symbol for element	Name	Group number and Group name (if group 1,2,7 or 8)	Atomic number	Metal, nonmetal or metalloid?
Na	Sodium	Group 1, alkali metals	11	metal
Cl				
Ва				
Xe				
Ag		(no group name!)		
Pb				
	copper			
	carbon			
	phosphorous		_	
	arsenic			
	nickel			

Extra Credit

Memorize the name and symbol (for example sodium is Na) for elements with atomic numbers:

Name _____

Atoms and Elements

1-20, 22, 24 - 38, 46- 48, 50, 53 -56, 78 -80, 82, 86, 88, 92, 94

Chapter 2:

3.	Explain how this is an example of the Law of Multiple Proportion:
Τv	vo different compounds formed from carbon and oxygen have the following mass ratios
1.3	33 g O: 1 g C and 2.66 g O: 1 g C.

4. Fill in the Table of neutral elements

Symbol of isotope	Name of element	# of Protons	# of neutrons	# of electrons
¹³⁸ Ba				
		13	12	13
	Silver		60	
			45	35

5. Complete the missing entries in the following table. The first row is filled in for you.

Symbol for isotope	Atomic number	Mass number	Number of neutrons	Number of electrons	Net charge	Name of element	Metal, nonmetal or metalloid
⁶⁶ Zn ²⁺	30	66		28	2+	zinc	metal
	53		74		1-		
		208		78		lead	
	15	31			3-		
		1	0	1			

	Calculate the atomic mass of gallium if gallium has 2 naturally occurring isotopes with the following masses and abundances:					
	Ga-69	68.9256 amu	60.11%			
	Ga-71	70.9247 amu	39.89%			
			omic mass of 107.868 amu. One isotope is Ag-109 isotope . What is the mass in amu of the other isotope?			
	e the following:		Co ₂ S ₃			
FeCl ₂			LiBr			
LiH			Cs ₃ N			
9. Writ	te the formulas for the	Following				
Calcium	chloride		Zinc sulfide			
Mercury	y (II) iodide		silver hydride			
Sodium	fluoride		Barium selenide			

6.

10. Fill in the Table.

Formula	Name	Name	Formula
FeO		hydrocyanic acid	
NH ₄ NO ₃		barium sulfate	
Pb(CO ₃) ₂		Potassium acetate	
HNO _{3 (aq)}		Lithium hydride	
Na ₂ SO ₃		potassium dihydrogenphosphate	
N_2O_4		Carbon disulfide	
Mg(ClO ₂) ₂		Sodium nitride	
K₃P		Magnesium sulfide	
SF ₄		cobalt (II) iodide	
Fe ₃ (PO ₄) ₂		Lead (III) oxide	
AgHCO ₃		Aluminum sulfate	
CCI ₄		Sulfur hexafluoride	
HCl(aq)		Silver sulfide	
HClO₄(aq)		Potassium hypochlorite	
Hg ₂ Br ₂		Lithium nitrite	
Ca(OH) ₂		Carbon disulfide	
NO		Nitrogen trichloride	
IBr ₅		Sulfurous acid	
HF(aq)		Acetic acid	