Ch. 2 Atoms, Molecules, & Ions

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Define the Law of Conservation	n of Mass?			
List the Postulates of Dalton's	Atomic Theory. Recognize whi	ch ones have been disproven.		
What did the cathode-ray expe	riment discover?			
Times and the sating as far, oxponinions aloos on				
What experiment discovered the nucleus?				
Compare the subatomic particles of an atom.				
Particle	Charge	Location		
raitible	Glidige	Location		

Label all parts of the e	lement.		
		35 _P	
What is an isotope?			
Chlorine has two com	mon isotopes. Fir	nd the number of protons	s, neutrons, and electrons.
Symbol	Protons	Neutrons	Electrons
³⁵ Cl			
³⁷ Cl			

What is an ion? What is a cation? What is an anion?

An element X has two naturally occurring isotopes:

- Isotope X-50 with an atomic mass of 49.95 amu and an abundance of 75%
- Isotope X-52 with an atomic mass of 51.94 amu and an abundance of 25%

Calculate the **average atomic weight** of element X.

The rows on the periodic table are called	?
The columns on the periodic table are called	?
Elements in the same group have similar	_ properties.
List all the diatomic elements:	
What type of formula gives the exact number of atoms of each element	ent in a compound?
What type of formula gives the lowest whole-number ratio of atoms compound?	of each element in a
What type of bonding occurs between a metal and a non-metal?	
What type of bonding occurs between a metal and polyatomic ion?	
What type of bonding occurs between two non-metals?	