This quiz is take-home and open book, and it is intended that all members of the group contribute to completing it. It is a violation of the Academic Honor Code to sign a quiz that you did not work on. The quiz is due at the beginning of class on Thursday, September 14.

<u>List names in alphabetical order, and give social security numbers!</u>	Put names on all pages, and				
staple pages together					

Points	8		
(3)	Identify the last name of the scientist responsible for the following experiments or discoveries about the nature of the atom: proposed the law of multiple proportions.		
		first measured the properties of the electron.	
	discovered X-rays.		
		bombarded gold foil with alpha particles.	
		determined the size of the charge on the electron.	
		discovered radioactivity.	

(4) 2. Complete the following table of properties of particles:

Particle	Symbol	Relative Electrical Charge	Relative mass (amu)
	n		
beta	В		
	e		1/1837
alpha	á	+2	4
proton		+1	1

Lis	st names in alphabetical order.	Be sure to staple pages together!	

(8) 3. Complete the following table showing the particle composition of different atoms and ions.

Atom or Ion	# of protons	# of neutrons	# of electrons
⁹ Be			
⁵⁹ Ni			
⁸⁰ Br ⁻			
$^{24}{ m Mg}^{2+}$			
	7	7	7
	48	64	46
	34	45	34
	1	2	1