

Name _____ Date Due _____

Homework 1 – Atoms

“Protons have a single positive charge and are found in the nucleus of the atom. Electrons have a single negative charge and orbit the nucleus like a satellite. Neutrons have no charge (are neutral). Both protons and neutrons have a mass of 1 amu (atomic mass unit). The mass of electrons is so small that it is said to be 0 amu.”

1. Complete the table below...

Particle	Mass (amu)	Charge	Where particle is found in atom
Proton			
Electron			
Neutron			

2. Why are atoms electrically neutral?

“The atomic number of an atom is the number of protons in the nucleus. The mass of an atom in amu is the number of protons plus the number of neutrons.”

2. Complete the table. You might need to look up a Periodic Table!

Element	Atomic number	No. protons	No. neutrons	Atomic mass
Li	3	3	4	7
H	1	1	0	1
He	2	2	2	
Mg	12	12	12	
Ca	20		20	
S			16	
C		6	6	
N			7	
O			8	
Cl				35
Xe			75	
P				31
	74		110	