Name	Date	Period
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Atomic Structure Worksheet

List the 3 subatomic particles, their charges, masses and where in the atom they are located in the chart below:

Subataomic Particle	Electrical Charge	Location in Atom	Relative mass (amu)

Draw an atom below and label the following:

Electron, Proton, Neutron, Nucleus

Describe how to determine the number of each subatomic particle in an atom below

Proton:	
Electron:	
Neutron:	

→6 → C
12.011 Carbon

Fill in the chart for the elements below. Round all atomic masses to the nearest whole number:

Element	Symbol	Atomic Number	Atomic Mass	# of Protons	# of Electrons	# of Neutrons
	7					
sodium						
Soulani						
	Cu					
				17		
silver						
	Pb					
calcium						
		72				
radon						
			93			52
uranium						
potassium						
						0

		is smaller than the other particles and can be foun
outside of the	, which is another name for	the center of the atom. In the center, there are
and	The	have no charge but weigh a lot compared t charge. In order to get the atomic mass, add the
the The prof number of a	ton has a	charge. In order to get the atomic mass, add the
number of a	nd togethe	r
	(orbits). Indicate the charge of	er of protons and neutrons and draw in the number of each subatomic particle. <i>REMEMBER, the Bohr mode</i> the easiest to draw.
1. Lithium	2. Fluorine	3. Argon
e- 4 n0		
4. Boron	5. Beryllium	6. Hydrogen
7. Phosphorus	8. Magnesium	9. Carbon

H 1	Periodic Table of the Elements © www.elementsdatabase.com Label the following 7. Transition Metals												He				
Li 3	Be ⁴	1. Periods 8. Alkaline Earth 2. Groups Metals 3. Metals 9. Rare Earth Metals										B 5 C N O 8					Ne
Na Na	Mg	5. Halogens 11. Other metals								AI	Si	15 P	16 S	CI	Ar		
19 K	Ca	SC SC	Ti	V 23	Cr	25 Mn	Fe	27 Co	28 Ni	Cu	Zn	31 Ga	Ge	As	Se	35 Br	36 Kr
Rb	38 Sr	39 Y	40 Zr	Nb	Mo	43 Tc	Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	Sn	Sb Sb	Te	53 	Xe Xe
CS CS	Ba	57 La	72 Hf	73 Ta	74 W	75 Re	76 Os	lr	78 Pt	79 Au	80 Hg	81 TI	Pb	Bi Bi	84 Po	85 At	Rn Rn
87 Fr	Ra Ra	Ac	104 Unq			107 Uns	108 Uno	109 Une	Unn								

Ce Ce	59 Pr	Nd 00	Pm	Sm	Eu	Gd Gd	Tb	Dy	67 Ho	68 Er	69 Tm	Yb	Lu
90 Th		92 U											