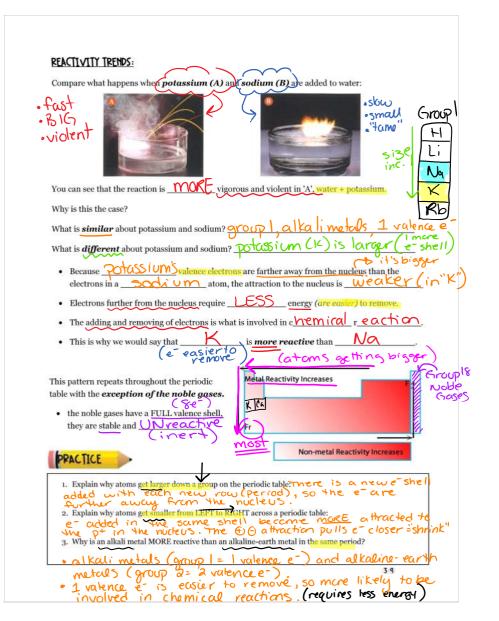
PART F: PERIODIC TABLE TRENDS In chemistry the term <u>Periodic frend</u> refers to a regular pattern in the properties of elements based on their atomic structure. This is the pattern that Mendeleev predicted. When the pattern repeated, he began a new row (per ice) The periodic table is a powerful tool for analyzing trends in account and periods. ATOMIC SIZE TRENDS: Observe the sizes of the atoms in each group and period shown in the diagram below. Do you see a pattern? atomic size decreases | Ncreases | moving DOWN a group/column. 1. Atomic size _ • the areater the number of electron shells, the forther away from the nucleus the valence electrons are if the electrons are farther away, the atom is Larger elements have MOVE numbers of electrons in their NOVE shells as you move LEFT to RIGHT. (adding e in the same shell) as the number of electrons increases, so does the number of proton in the nucleus. the attraction between the negative valence electrons and the positive multiple is very strong.

with each electron added, the outer shell is pulled <u>Closer</u> to the nucleus and the

atomic size decrease adding e in the same shell makes the 38 G of attraction so strong, the atom "shrinks"





ASSIGNMENT #6:Bohr Model Review Worksheet pg 40 This assignment is to be completed below in the space provided.

Thursday Oct 17th Homework:

- Assignment #6 pg 40Review Assignment ("practice test")

Chemistry Unit Test TOMORROW (Friday Oct 18th)*

Bohr Model Review Worksheet

Use the description sheet and the periodic table to help you complete the following Bohr

1. How many electrons can each shell hold?

a.
$$1^{st} =$$

What to Hand In:

- Cover page
 PINK Booklet (+ all hw assignments done)
- GREEN Booklet (+ all hw assignments done)
 Quiz Corrections (separate page, explain WHY)
- Review Assignment/ "practice test" (yellow book)

0.	3					
Element	Atomic #	Atomic Mass	Protons	Neutrons	Electrons	Bohr Model
Carbon	6	12	6	6	6	P=6 N=6
Hydrogen	1	1	1	0	1	#p= 1 #n= 0
Lithium	3	7	3	4	3	3 p. 4 n°
Magnesium	12	24	12	12	12	12 p° 12 n°
Boron	5	11	5	6	5	5P 6N