SCH3U0 - Chemistry: The Periodic Table and Periodicity Answer each of the following questions.					
1.	Who first published the classification of the elements that is the basis of our periodic table today?				
2.	By what property did Mendeleev arrange the elements?				
3.	By what property did Moseley suggest that the periodic table be arranged?				
4.	What is the periodic law?				
5.	What is a period?				
6.	How many are there in the periodic table?				
7.	What is a group (also called a family)?				
8.	How many are there in the periodic table?				
9.	State the number of valence electrons in an atom of:				
	a. sulfur	b. calcium		c. chlorine	d. arsenic
10.	Give the names and chemical symbols for the elements that correspond to these atomic numbers:				
	a. 10	b. 18	c. 36		d. 90
11.	List, by number, both the period and group of each of these elements.				
		Symbol		<u>Period</u>	Group
	a. beryllium	Be			
	b. iron	Fe			
	c. lead	Pb			
12.	Which of the following pairs of elements belong to the same period?				
	a. Na and Cl b. Na and Li c. Na and Cu d. Na and Ne				
13.	Which of the following pairs of elements belong to the same group?				
	a. H and He b. Li and Be c. C and Pb d. Ga and Ge				
14.	How does an element's period number relate to the number of the energy level of its valence electrons?				
15.	What are the transition elements?				
16.	Would you expect strontium to be, chemically, more similar to calcium or rubidium and WHY?				
17.	What is the heaviest noble gas?				
18.	What is the heaviest alkaline earth metal?				
19.	In going from top to bottom of any group, each element has more occupied energy level(s) than the element above it.				
20.	What are the Group 1 elements called?				
21.	What are the Group 2 elements called?				
22.	What are the Group 17 elements called?				
23.	What are the Group 18 elements called?				
24.	List the three lightest members of the noble gases.				
25.	List all of the alkali metals.				

26.

Which alkali metal belongs to the sixth period?