Worksheet on Chemical Families

1. In what group are fluorine, chl	orine, and iodine located? What is the name of this family?
2. What are the most un-reactive are they located?	e and most stable atoms in the periodic table called? In what group
3. Do the metallic elements displ of these elements?	ay metallic or nonmetallic properties? What are the group numbers
4. Is oxygen an example of a met	cal, nonmetal, or metalloid? In what group is oxygen located?
5. In what group are the alkaline	earth elements located? Name two of these elements.
6. What is the family name of the	e elements in Group 1? Name two of these elements.
7. How similar might you expect	tne chemical properties of gallium and indium to be? Explain.
8. Hydrogen is placed at the top	of which group of elements?
Use the following terms to match	n with questions 9 - 16 . Answers may be used more than once.
A) noble gasesB) transition elementsC) alkali metals	D) halogens E) alkaline earth metals
9. These achieve the	electron configurations of noble gases by losing two electrons.
10. These vary in the n	number of electrons in the highest energy level.
11. These achieve the	electron configurations of noble gases by gaining one electron.
12. These have a single	e electron in the highest energy level.
13. These are stable a	nd un-reactive.
14. These are highly re	eactive and readily form salts with metals.
15. These are metals t	hat are more reactive than the transition elements but less reactive
than the alkali metals.	

CIRCLE THE CORRECT ANSWER FOR QUESTIONS 17 - 29

7. Which element is more like lithium in terms of properties: sodium or beryllium?							
8. Which element has more electrons in its outer energy level: sodium or magnesium?							
19. Which element is closer to achieving noble gas configuration: magnesium or lithium?							
20. Which element reacts more readily with fluorine: lithium or beryllium?							
21. Which of the following metals is not an alkali metal? A) sodium B) potassium C) ironD) francium							
22. Alkali metals must be stored under oil because of their extreme A) radioactivity B) reactivity C) softness D) brilliance							
23. Which element will react more readily with chlorine: sodium or magnesium?							
24. Because the alkali metals are very reactive, they are found as pure metals in nature. A) sometimes on hot days may be B) never							
D) may if the weather is cold enough be							
25. There are no known compounds ofA) xenon B) krypton C) helium, neon, and argon D) lany of the noble gases							
26. All the elements after are synthetic elements. A) thorium B) lawrencium C) uranium D) plutonium							
27. The most reactive element is A) bromine B) iodine C), fluorine D) chlorine							

Fill in the following table.

Element	Group #	Period #	Metal, Nonmetal, Or nonmetal ?	Atomic Number	Symbol
Lithium					
Boron			,		
Carbon	-				
Nitrogon			·		
Oxygen			i.		
Potassium			Ł		
Silicon					· · · · · · · · · · · · · · · · · · ·
Sulfur	,		,		