

Name:

Class:

Date:

### Chemical Families

1. In what group # are fluorine, chlorine, and iodine located? What is the name of this family?
2. What are the most un-reactive and most stable atoms in the periodic table called? In what group are they located?
3. Is oxygen an example of a metal, nonmetal, or metalloid? In what group is oxygen located?
4. In what group number are the alkaline earth metals located? Name two of these elements.

Use the following terms to match with the following questions. Answers may be used more than once.

Noble Gases

Alkali Metals

Halogens

Alkaline Earth Metals

5. These achieve a full valence shell by losing two electrons \_\_\_\_\_
6. These achieve a full valence shell by gaining one electron. \_\_\_\_\_
7. These have a single electron in their outer shell. \_\_\_\_\_
8. These are stable and unreactive. \_\_\_\_\_
9. These are highly reactive and readily form salts with metals. \_\_\_\_\_

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Circle the correct answer:

10. Alkali metals must be stored under oil because of their extreme:
  - a. Radioactivity
  - b. Reactivity
  - c. Softness
  - d. Brilliance
  
11. Because the alkali metals are very reactive, they are \_\_\_\_ found as pure metals in nature.
  - a. Sometimes on hot days maybe
  - b. Never
  - c. Always
  - d. Maybe if the weather is cold enough
  
12. Which element is more like lithium in terms of properties:
  - a. Sodium
  - b. Beryllium
  
13. Which element has more electrons in its outer energy level:
  - a. Sodium
  - b. Magnesium
  
14. Which of the following metals is not an alkali metal?
  - a. Sodium
  - b. Potassium
  - c. Iron
  - d. Francium
  
15. The most reactive element is...
  - a. Bromine
  - b. Iodine
  - c. Fluorine
  - d. Chlorine

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Fill in the following table:

Element	Group #	Period #	Metal, Nonmetal, or Metalloid?	Atomic Number	Symbol
Lithium					
Boron					
Carbon					
Nitrogen					
Oxygen					
Potassium					
Silicon					
Sulfur					