

1. Given the chemical elements I (iodine), F (fluorine), Br (bromine), Cl (chlorine), answer the following questions:
- a) Organize the elements above in a sequence of reactivity from least to most reactive.

- b) Organize the elements above according to atomic radius (size); from smallest to largest.

2. Given the chemical elements Cl (chlorine), Mg (magnesium), P (phosphorous), Na (sodium), S (sulfur), answer the following questions:

- a) Organize the elements according to their atomic radius (atom size); from smallest to largest.

- c) List those that are metals: \_\_\_\_\_.

- d) List those that are non-metals: \_\_\_\_\_.

- e) The most reactive metal in the list is: \_\_\_\_\_.

- f) The most reactive non-metal in the list is: \_\_\_\_\_.

- g) List 4 properties of metals:

i.  
ii.  
iii.  
iv.

- h) List 4 properties of non-metals:

i.  
ii.  
iii.  
iv.

- i) List 4 properties of metalloids:

i.  
ii.  
iii.  
iv.

3. What is the Law discovered by Lavoisier?

4. What is the Law discovered by Proust?

5. Who organized the Periodic Table of Chemical Elements? What did he base his organization of the elements on?

6. The Modern Periodic Table is organized according to: