Go to: <http://www.freezeray.com/chemistry.htm>

Part One: Identifying Salts

Click on “Identifying Salts”

Click on “Help Files” book and answer the following. (you will have to c lick through each of the tabs on the book)

1. What are Alkali Metal Halides?
2. What are the 3 alkali metals listed?
3. What are the 3 halogens listed?
4. When an alkali metal reacts with a halogen a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is formed.
5. How do we identify the alkali metal in a halide compound?
6. How do we identify the halide in the compound?
7. Identify the flame colors of each:
   1. Lithium\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Sodium \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. Potassium \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Identify the precipitate colors of each:
   1. Chloride \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Bromide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. Iodide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Press the space bar to close the help files.

For each compound; Pick up the spoon and put it in the flame, pick up the dropper and put it in the test tube. This will then give you a pop up with options. Identify the compounds using the colors you got. List your data in the table below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Flame Color | Alkali Metal | Precipitate Color | Halogen | Name of Compound |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Part Two:

Go back to the main site. Click on “Discovery Dates”

1. Make sure the button near “plain background” is clicked.

Click the Back arrow under “ancient times” to reset the periodic table to the earliest time period.

Click forward through the times and label the periodic table with the time it was discovered.

1. Click the button next to “reactivity” and list the 2 most reactive elements.
2. Click the button next to “abundance in Earth’s crust” and list the 3 most abundant elements.
3. Click the button next to “State at room temperature” and label the periodic table with either L, S, or G for liquid, solid, or gas, for each element.