

PERIODIC PROPERTIES LAB

Objective: To determine the relationship between the reactivity of elements and their location on the Periodic Table.

Procedure:

Part I: Halogens

1. Put 5mL of NaCl into a test tube.
2. Add HNO₃ to the test tube one drop. After each drop test to see if the solution turns the blue litmus paper pink. (Test this by dipping the stirring rod into the test tube and then touching it to the litmus paper).
3. After the blue litmus paper turns pink, add 5 more drops of HNO₃.
4. Add 5mL of AgNO₃ to the test tube. Record observations.
5. Repeat steps 1-4 for NaBr, NaI and the unknown halogen in CLEAN test tubes.

Part II: Alkaline Earth Metal Salts

1. Put 1mL of each into their own test tubes: Mg(NO₃)₂, Ca(NO₃)₂, Sr(NO₃)₂, and Ba(NO₃)₂.
2. Add 1mL of 1M H₂SO₄ to each test tube. Record observations.
3. Rinse test tubes and refill with the original solutions.
4. Add 5mL of 1M Na₂CO₃ to each. Record observations.
5. Rinse, refill, and add 5mL of 0.25M (NH₄)₂C₂O₄ to each. Record observations.
6. Repeat with unknown alkaline earth metal salt.

Part I: Data:

Halide	Observations
NaCl	
NaBr	
NaI	
Unknown	

Periodic Properties Lab Answer Key

R Sanford



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