

**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 HNO<sub>3</sub> 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 HNO<sub>3</sub>.
4. Add 5mL of AgNO<sub>3</sub> 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(NO<sub>3</sub>)<sub>2</sub>, Ca(NO<sub>3</sub>)<sub>2</sub>, Sr(NO<sub>3</sub>)<sub>2</sub>, and Ba(NO<sub>3</sub>)<sub>2</sub>.
2. Add 1mL of 1M H<sub>2</sub>SO<sub>4</sub> to each test tube. Record observations.
3. Rinse test tubes and refill with the original solutions.
4. Add 5mL of 1M Na<sub>2</sub>CO<sub>3</sub> to each. Record observations.
5. Rinse, refill, and add 5mL of 0.25M (NH<sub>4</sub>)<sub>2</sub>C<sub>2</sub>O<sub>4</sub> 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

**Siddappa N.Byrareddy**



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classification of angiosperms based on the types of cotyledon present angiosperms are divided into two classes they are monocotyledons and dicotyledons the dicotyledonous angiosperms have two cotyledons in their seeds and the

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they classified all the seed plants into 3 groups or classes i e dicotyledons 165 families gymnosperms 3 families and monocotyledons 34 families 4 they included disputed orders among ordines anomali which they could not place satisfactorily

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division angiosperms bear flowers as reproductive organs seeds develop inside fruit plant embryos in seeds have structures called cotyledons seed leaves further classification is based on single cotyledons monocotyledonous plants or two cotyledons dicotyledonous plants

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sep 7 2021 classification of angiosperms angiosperm can be classified under two sub headings monocotyledons or monocots the monocots have embryos consisting of only one cotyledon leaves have parallel veination and the roots are of adventitious type

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monocotyledons the seeds contain a single cotyledon this group has adventitious roots only roots contain 8 to 20 vascular bundles in a stem vascular bundles are scattered

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the angiosperms or in new terminology the magnoliophytes are the flowering plants which include perhaps as many as 400 000 species from the science of grapevines second edition 2015 related terms cladistics genus pollinator gymnosperm anthesis arabidopsis evolution tissues

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