

Lab report 1 | The Primary Stage of Grades (4-5)

2023-2024

Name:

Subject: Science

Date: / /

Unit 2: Physical and Chemical Changes

Class: Grade 5 National (All Sections)

Objective/s: Differentiate between physical and chemical changes.

Objective:

Students should be able to:

- Identify physical and chemical changes in matter.
- Observe the difference between physical and chemical changes in matter.

Materials required:

- Magnesium ribbon
- Hydrochloric acid
- Water
- Vinegar
- Sodium Bicarbonate
- Paper
- Butter

Procedure:

1. Melting butter:

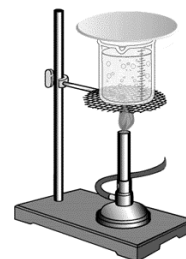
- Place the butter in a beaker.
- Place the beaker on the Bunsen burner and wait until the butter melts.
- Can we change the butter back to the solid state?



- Conclusion:

2. Evaporating water:

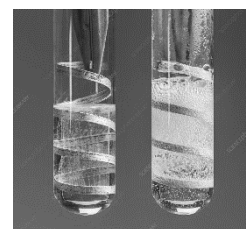
- Pour water into a beaker.
- Place the beaker on the Bunsen burner and wait until water boils.
- Place a mirror at the top of the beaker and wait.
- Can we change the water vapor back to the liquid state?



- Conclusion:

3. Magnesium ribbon and hydrochloric acid:

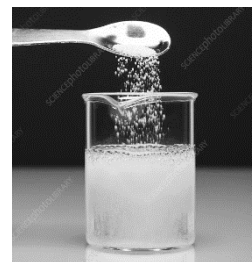
- Pour 20 cm³ of HCl into a test tube.
- Add a piece of Magnesium ribbon to the test tube.
- Observe what happens to the Magnesium ribbon, write your observation:



- Observation:

- Conclusion:

4. Sodium Bicarbonate and vinegar:

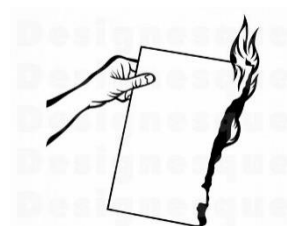


- Pour certain amount of Vinegar in a beaker.
- Add some sodium bicarbonate to the vinegar.
- Observe what happens and record your observation.

- Observation:

- Conclusion:

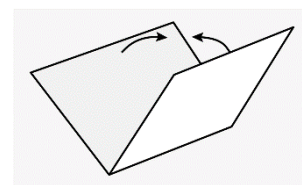
5. Burning paper:



- Burn a piece of paper.
- Observe what happens.
- Can we get the paper back to its original form?

- Conclusion:

6. Folding paper:



- Bring a piece of paper and fold it.
- Can we get the paper back to its original form?

- Conclusion:

7. Burning a piece of magnesium:

- Burn a piece of magnesium.

- Observe what happens, and record your observation:

- Observation:

- Can we get magnesium back to its original form?

- Conclusion:

Conclusion:

Physical Changes are

.....

Chemical Changes are

.....