

The Primary Stage of Grades (4-5)
School Year 2022 - 2023

Name: _____

**Unit (6): Physical and
Chemical Changes**

**Worksheet (1)- Chemical Changes/ Lab report
Grade 5 CP (All sections)**

Date: / /

Objective:

- Look for evidences of chemical changes.

- Required Materials:

Different materials for testing:

- Acid (HCL)

- A candle

- Vinegar

- Bicarbonate of soda

- A piece of paper

- Magnesium ribbon

- Bunsen burner

- A beaker

- Test tubes

- Test tube holder

Procedure:

1. Cut a piece of magnesium ribbon, and put it in a test tube. Add 30 ml of HCL acid. Write your observations in table 1.
2. Put 2 spatulas (spoons) of bicarbonate of soda, and then add 50 ml of vinegar in a beaker. Write your observation in table 1.
3. Burn a piece of paper using Bunsen burner. Write your observation in table 1.
4. Burn a piece of magnesium. Write your observation in table 1.

- **Observation:**

Test	Reactants	Observations
Metal (Magnesium) + Acid (HCL)		
Bicarbonate of soda + vinegar		
Burning a piece of paper		
Burning a piece of magnesium		

Table 1

Conclusion:

In a chemical change, substances react together to produce a new material.

Evidences of a chemical change include:

1.

2.

3.

Question 1:

Classify the following changes into chemical or physical changes, and state the evidences of the chemical change.

Change	Chemical Change/ Physical Change	Evidence of the chemical Change
Mixing bicarbonate of soda and vinegar.		
Mixing sand and water.		
Mixing cement and water.		
Dissolving sugar in water.		
Melting Ice		
Dissolving salt in water		

Question 2:

Your teacher lit a candle and told you that this was a chemical reaction.

a) What are the reactants in this chemical reaction?

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b) What are the products in this chemical reaction?

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c) Why did the flame go out when your teacher put a jar over the candle?

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