

TERM 2: Practical Investigation 2



A. TITLE: NEUTRALISATION BY REACTING VINEGAR (ACID) WITH BICARBONATE OF SODA (BASE)

B. Hypothesis: What is your hypothesis?

(3)

Vinegar reacts with bicarbonate of soda to produce salt and water in a neutral reaction. ✓✓✓

C. INTRODUCTION

When vinegar (acidic substance) reacts with bicarbonate of soda (baking soda), which is a basic substance, a neutralisation reaction occurs. This reaction produces water, salt and carbon dioxide.

D. AIM: To investigate

(3)

E. SAFETY

Learners should not taste any of the chemicals used.

F. APPARATUS:

1. Two bottles / test tubes
2. Distilled water
3. Balloon
4. Universal indicator paper or solution
5. Spatula / plastic teaspoon / stirring rod / glass rod
6. Vinegar (acetic acid)
7. Bicarbonate of soda (sodium bicarbonate) NaHCO_3

G. METHOD:

1. Learners must work in groups of four or five.
2. Add about 5 ml or 5 cm³ of vinegar in a test tube / bottle.
3. Record the initial pH of the vinegar using the universal indicator paper or solution.
4. Dissolve a small amount of bicarbonate of soda in the test tube / bottle while stirring.
5. Record the amount of bicarbonate of soda used.
6. Put a balloon over the mouth of the bottle.

Vinegar + Baking soda



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Clemens Wendtner



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