Target Stoichiometry Lab

Mole Relationships and the Balanced Equation



Introduction

A simple decomposition reaction of sodium bicarbonate (buking soda) presents the opportunity for students to test their knowledge of stoichiometry, factoring labels, and the mole concept. This outcome-based lab requires the students to preeisely predict the mass of the solid product. An electronic balance will reveal how close the students come to their "target" and depermines their grades."

Concepts

Made conseque.

Strokchkonnetev

Balanced chemical equation.

Materials

For each student group

Sudium bicarbonare, NaIICO, 5-6 g Universal indicator solution, a few drops

Blummers burns or

Burnance surfery bighters. Charmy, simple buret

To be shared.

Balances, electronic, 0.01-g precision, 3-

Test tube "holder" for balances (See Preparation below).

For teacher sweamentions

Ciliana wencel

Class wood "paint brush" (See Preparation below).

Someoner strained.

Test tube, borosilicate glass

Text tube champ.

Cardboard or thin metal sheets, $4" \times 4"$, 3

Deiseking struss

Electrical target

Section of the second

Safety Precautions

Universal indicator relation is also bel-based and is a flavormable liquid. When bearing redirant bicarbonate, use a lower-licate glass test tabe. Inspect the test take for chips and cracks before use and handle the hot test take using a test take clamp. Use a cod flame to beat the test take. Do not buildle glass wood with have build. Hive chemical splash goggles, chemical-resistant gloves, and a chemical-resistant apron. Wind bands thoroughly with map and water before leaving the laboratory. Follow all laboratory safety guidelines. Please review current Material Safety Data Sheets for additional safety, bandling, and disposal information.

Preparation.

- 1. Make a glass wood "paint brush" for each student lab group. Wearing gloves, out small pieces of glass word and tape a piece to the end of each straw.
- 2. Fold a piece of cardboard or thin metal sheet accordion-style (see Figure 1). Place one folded sheet on each balance as a test tube bolder to prevent the tube from rolling off the balance.
- 3. Set up a support stand and clarity with a Burson burner for each lab station.

Disposal

Please consult your current Flinn Scientific Catalog/Reference Manual for general guidelines and specific procedures governing the disposal of laboratory waste. After completely cooling, the test tube of sodium earborate may be rinsed and the waste disposed of down the drain with excess water according to Flinn Suggested Disposal Method #26b.



Figure 1.

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S Baum

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