

Mystery Solutions Lab

Scientific Method Inquiry Lab Activities



Introduction

On one of the first class periods of the year, students are paired-off and given a lab-based puzzle to solve. One in each pair is given a set of three colorless solutions, designated with numbers, the other is given a matching (but scrambled) set of solutions, designated with letters. Through careful mixing, observing, reporting and reasoning, they work together to pair up the lettered solutions to their matching numbered solutions.

Concepts

- Observation
- Scientific inquiry
- Scientific method

Materials (for class of 30 working in pairs)

Aluminum potassium sulfate (alum) solution, 2%, 200 mL	Permanent marker
Sodium bicarbonate (baking soda) solution, 2%, 200 mL	Pipets, Beral-type, jumbo, 50
Vinegar, white, 200 mL	Pipets, thin-stem, 50
Acetate sheets (write-on transparencies for the overhead projector), 3	Plastic cups, wide-mouth, 3
Cassette boxes, empty, 30	Rubber bands, 15
Paper towels, 1 per student	Scissors

Safety Precautions

The chemicals in this laboratory activity are considered safe. All first-grade items that have been brought into the lab are considered laboratory chemicals and are for lab use only. Do not taste or ingest any material in the lab and do not remove any remaining food items after they have been used in the lab. Wear chemical splash goggles, chemical-resistant gloves, and a chemical-resistant apron. Wash hands thoroughly with soap and water before leaving the laboratory. Follow all laboratory safety guidelines. Please review current Material Safety Data Sheets for additional safety, handling, and disposal information.

Preparation

1. Cut the stems off the jumbo pipets and then cut the bulbs in half. Push three halves, open-side up, side-by-side, into each cassette box. These will act as holding cups for the thin-stem pipet bulbs (see Figure 1).
2. Cut off all but 1 cm of the stems off each thin-stem pipet.
3. Label 15 of the thin-stem pipet bulbs "A," 15 of them "B," 15 of them "C," 15 of them "1," 15 of them "2," and 15 of them "3."
4. Place 200 mL of alum solution (2%) in a wide-mouth cup labeled "A, 2."
5. Place 200 mL of baking soda solution (2%) in a cup labeled "B, 3." Place 200 mL of white vinegar in a cup labeled "C, 1."
6. Pick up two of the bulbs labeled "A" (one in each hand), squeeze them and then draw up half a bulb-full of the solution from cup "A, 2." Place these bulbs directly into the first holding cups in the first two cassette boxes. Repeat with two more "A" bulbs, placing them in the third and fourth cassette boxes. Continue until all fifteen "A" bulbs are done (see Figure 1).
7. Pick up two of the bulbs labeled "B" (one in each hand), squeeze them and then draw up half a bulb-full of the

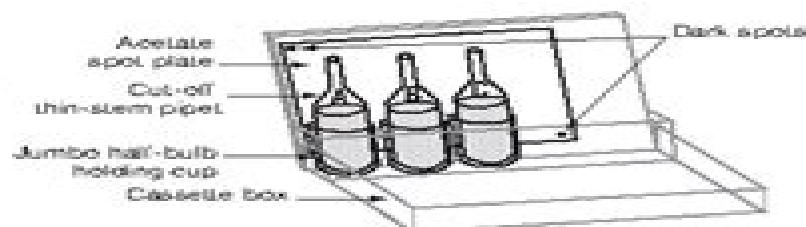


Figure 1.

Mystery Solutions Lab Answer Key

AW Chickering



Mystery Solutions Lab Answer Key:

Unveiling the Power of Verbal Art: An Mental Sojourn through **Mystery Solutions Lab Answer Key**

In a world inundated with displays and the cacophony of quick conversation, the profound energy and emotional resonance of verbal beauty frequently fade into obscurity, eclipsed by the regular assault of noise and distractions. However, nestled within the musical pages of **Mystery Solutions Lab Answer Key**, a fascinating function of literary elegance that pulses with natural emotions, lies an unforgettable journey waiting to be embarked upon. Written by way of a virtuoso wordsmith, that enchanting opus guides viewers on a mental odyssey, delicately revealing the latent possible and profound affect embedded within the delicate web of language. Within the heart-wrenching expanse of this evocative analysis, we shall embark upon an introspective exploration of the book is main themes, dissect its captivating publishing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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