

Evidence for Chemical Change

One way of knowing that a chemical change has occurred is to observe that the properties of the products are different from those of the reactants. A new product can then become a reactant in another chemical reaction. In this experiment, you will observe a sequence of changes that occur when a solution that begins as copper(II) nitrate is subjected to a series of different reactions. All of the reactions will take place in the same test tube. At each step, you will look for evidence that a new substance has formed as a result of a chemical change. You will also observe energy changes and relate them to chemical reactions.

OBJECTIVES

Observe evidence that a chemical change has taken place.

Infer from observations that a new substance has been formed.

Identify and record observations that show energy is involved in chemical change.

Observe the color and solubility of some substances.

Describe reactions by writing word equations and balanced chemical equations.

MATERIALS

- aluminum wire, 12 cm
- beaker, 100 mL
- Bunsen burner and related equipment
- copper(II) nitrate, 1.0 M
- glass stirring rod
- gloves
- HCl, 1.0 M
- iron ring
- lab apron
- lab marker
- NaOH, 1.0 M
- ring stand
- ruler
- safety goggles
- test tube, 13 mm × 100 mm
- test-tube rack
- wire gauze, ceramic-centered



Always wear safety goggles and a lab apron to protect your eyes and clothing. If you get a chemical in your eyes, immediately flush the chemical out at the eyewash station while calling to your teacher. Know the location of the emergency lab shower and the eyewash station and the procedures for using them.



Do not touch any chemicals. If you get a chemical on your skin or clothing, wash the chemical off at the sink while calling to your teacher. Make sure you carefully read the labels and follow the precautions on all containers of chemicals that you use. If there are no precautions stated on the label, ask your teacher what precautions to follow. Do not taste any chemicals or items used in the laboratory. Never return leftover chemicals to their original containers; take only small amounts to avoid wasting supplies.



Call your teacher in the event of a spill. Spills should be cleaned up promptly, according to your teacher's directions. **Acids and bases are corrosive.** If an acid or base spills onto your skin or clothing, wash the area immediately with running water. Call your teacher in the event of an acid spill. Acid or base spills should be cleaned up promptly.



Never put broken glass in a regular waste container. Broken glass should be disposed of separately according to your teacher's instructions.

Evidence Of Chemical Change Lab Report

G Thomas



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Forensics in Chemistry Sara McCubbins, Angela Codron, 2012 Forensics seems to have the unique ability to maintain student interest and promote content learning I still have students approach me from past years and ask about the forensics case and specific characters from the story I have never had a student come back to me and comment on that unit with the multiple choice test at the end from the Introduction to Forensics in Chemistry The Murder of Kirsten K How did Kirsten K's body wind up at the bottom of a lake and what do wedding cake ingredients soil samples radioactive decay bone age blood stains bullet matching and drug lab evidence reveal about whodunit These mysteries are at the core of this teacher resource book which meets the unique needs of high school chemistry classes in a highly memorable way The book makes forensic evidence the foundation of a series of eight hands on week long labs As you weave the labs throughout the year and students solve the case the narrative provides vivid lessons in why chemistry concepts are relevant and how they connect All chapters include case information specific to each performance assessment and highlight the related national standards and chemistry content Chapters provide Teacher guides to help you set up Student performance assessments A suspect file to introduce the characters and new information about their relationships to the case Samples of student work that has been previously assessed and that serves as an answer key for you Grading rubrics Using Forensics in Chemistry as your guide you will gain the confidence to use inquiry based strategies and performance based assessments with a complex chemistry curriculum Your students may gain an interest in chemistry that rivals their fascination with Bones and CSI

Agriculture Decisions: United States. Department of Agriculture, 1982-05 Up to 1988 the December issue contains a cumulative list of decisions reported for the year by act docket numbers arranged in consecutive order and cumulative subject index by act

Collaborative School Leadership Ron Nash, Kathleen Hwang, 2012-11-06 In Collaborative School Leadership Nash and Hwang provide administrators with clear and focused ideas on making the most of collaborative leadership while on the path to continuous improvement Recognizing that classroom instruction is at the core of any plan of improvement this book looks at the role and nature of powerful building level professional development Nash and Hwang provide answers to critical questions As part of a school's improvement efforts what is non negotiable What are some barriers to progress and how can they be overcome or removed How can building administrators help teachers improve instruction An extensive appendix provides principals and teacher leaders with ten lessons and an entire chapter is devoted to the kind of formative support that building administrators can provide in the pursuit of student progress Finally Nash and Hwang elaborate on the whole decision making process and differentiate between the kind of independent and interdependent reflection that is part of the relentless pursuit of continuous improvement at the building level

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