

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.

MATERIALS

- aluminum wire, 12 cm
- beaker, 100 mL
- Bunsen burner and related equipment
- copper(II) nitrate, 0.75 M
- glass stirring rod
- gloves
- HCl, 3.0 M
- iron ring
- lab apron
- lab marker
- NaOH, 3.0 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.

Evidence For Chemical Change Lab Answers A5

L Darling-Hammond



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