

## Isolating Copper by Electrolysis

### I. Abstract

The purpose of this lab is to use electrical energy to isolate copper metal during a chemical reaction. Paper clips hooked up to a six volt battery acted as electrodes to chemically react copper chloride solution into copper and chlorine. This activity is relevant to our class discussions on chemical changes and the law of conservation of mass. Electrolysis is used in many everyday items such as nickel on the five-cent coin, hydrogen from water for fuel in hydrogen powered cars, and the gold plating that covers computer chips in electronic devices.

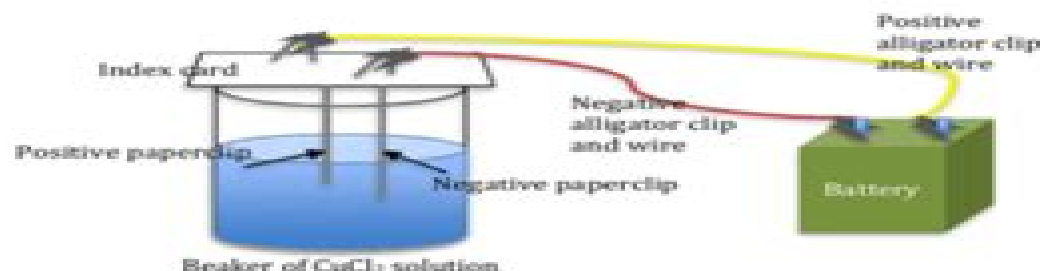
### II. Hypothesis

I predict that the color of the copper chloride solution will change from blue to copper color.

### III. Materials

- 250 mL beaker
- 2 paperclips
- six-volt battery
- index card
- 2 alligator clip wires
- 100 mL of copper chloride solution ( $\text{CuCl}_2$ )
- goggles

### IV. Diagram



### V. Procedure

1. Gather all the materials needed.
2. Unbend both paperclips to make a hook shape.
3. Push the unbent end of each paperclip through the index card so that they are about three centimeters apart.
4. Pour 100 mL of the  $\text{CuCl}_2$  solution into the beaker.

# Isolating Copper By Electrolysis Skill Lab Answers

**B Lingard**



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