

Reactions and Equations Lab

Parts A, B, & C

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GCHS

Chemistry 10-12



Purpose

- To observe 7 reactions
- To identify and write formulas for the reactants and products of those reactions
- To balance the equations for the reactions

Evidence of Chemical Reaction

Part A

R1 Mg ribbon is ash-like now

R2 Litmus test indicates a base

Part B

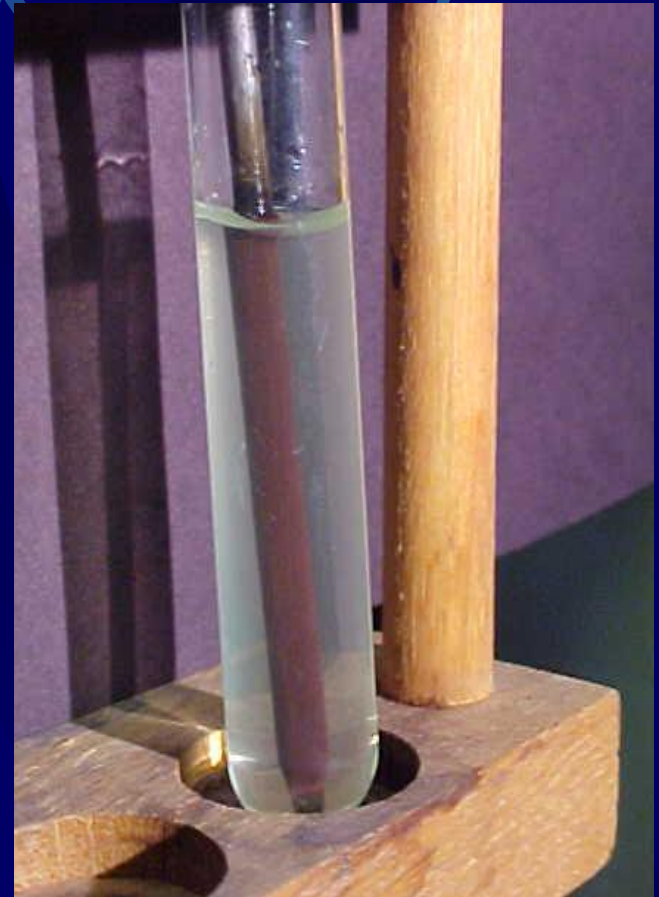
R1 Solid turns white, steam comes from test tube

R2 Solid turns blue again

Evidence of Chemical Reaction

Part C

R1 Fe nail is now coated in Cu and the solution has changed from a blue color to a **greenish** color



Evidence of Chemical Reaction

Part C

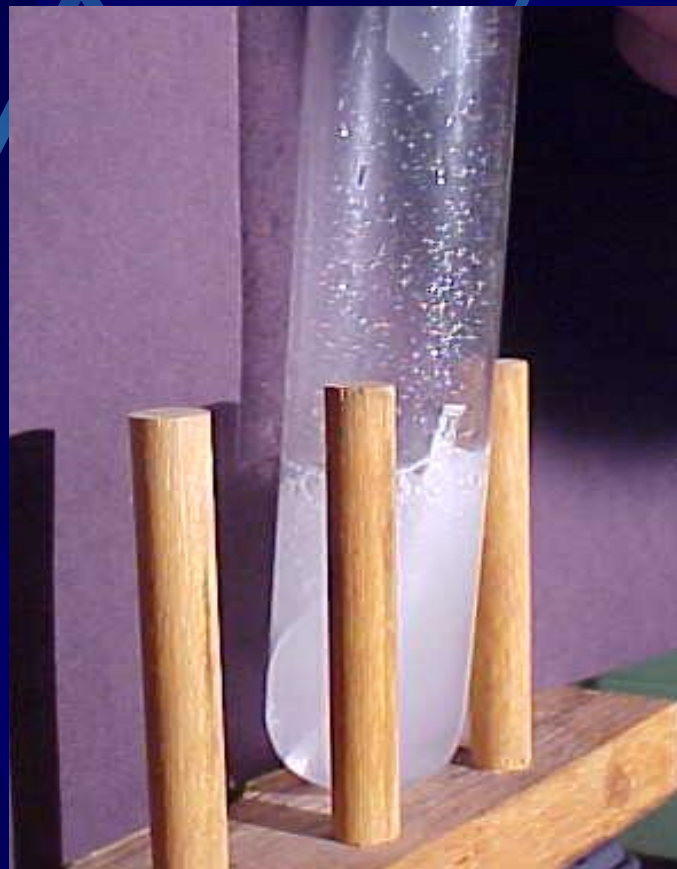
R2 Cu metal is now coated with Ag and the solution is beginning to take on a slightly blue tint



Evidence of Chemical Reaction

Part C

R3 HCl solution begins to vigorously bubble when the Mg ribbon is added. Gases are evident as they wisp through the air into the collecting tube; gas is flammable



Word Equations Part A

- A1: Magnesium plus oxygen yields ?
- A2: A1 product plus water yields ?

Word Equations Part B

- B1: Copper (II) Sulfate Pentahydrate is heated to yield ?
- B2 Anhydrous Copper (II) Sulfate plus water yields ?

Word Equations Part C

- C1 Iron plus Copper (II) Sulfate yields... ?
- C2 Copper plus Silver Nitrate yields... ?
- C3 Magnesium plus Hydrochloric Acid yields... ?

Instructions

- Complete the word equations by predicting the products, use the information you gathered by observation to help in the predictions
- Be sure to include the state of the substance for the reactants and products
- Classify the reaction

The End

- Complete the equations for the reactions
- Then you may go finish Part D of the lab instructions. You will need the solubility rules.



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