

STUDENT LAB SHEET:



HS-PS1-2&7

Title: Experiment #37 - Stoichiometry

Introduction: We learned in Chapter 4 that ions can form more than one type of cation. In this lab you will measure the amount of product formed when measured amounts of reactants are mixed. From this information, you will determine which equation, shown below, applies to the reaction you ran in this experiment. The possible reactions are:



Purpose/Problem: What is the formula for the iron-containing compound formed when copper (II) sulfate reacts with pure iron?

Hypothesis: provide attempts to explain what you expect your answer will be from the lab's problem.

Pre-laboratory Questions:

- Write out and balance each of the following equations:
 - copper(II) sulfate (aq) + iron (s) → copper (s) + iron (II)sulfate (aq)
 - copper(II) sulfate (aq) + iron(s) → copper (s) + iron(III) sulfate (aq)
- What is the limiting reactant for both equations? Show your work.
- Using your balanced equation, if 20g of iron (II) sulfate were formed, what mass of copper could be expected?
- Using your balanced equation, if 20 g of iron (II) sulfate were formed, what mass of copper could be expected?

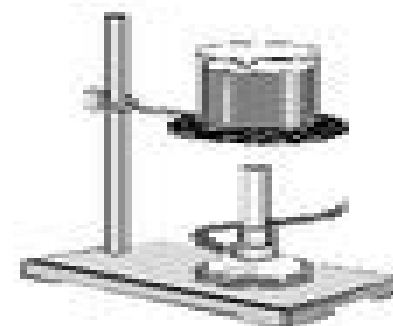
Materials:

Apparatus

- Safety goggles
- Lab apron
- Ring stand
- 250mL beaker (2)
- Wise gauge
- Digital scale
- Bunsen burner
- Igniter
- Stir rod
- Hot pad or rubber-coated tongs

Reagents:

- Copper (II) sulfate
- Water



Safety

- Safety goggles must always be worn in the laboratory.
- You will work with fire in this lab. Tie back long hair and clothing.
- If you come in contact with any solution, wash it out of you as thoroughly.

Procedure:

- Weigh a clean, dry 250mL beaker. Record mass in data table provided.
- Place 7.00g of copper (II) sulfate in a beaker.
- Add about 50mL of water to the beaker.
- Arrange the beaker, wise gauge, Bunsen burner and ring stand as shown in the image to the right.

Experiment 37 Stoichiometry Answers

Jicheng Xie

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Experiment 37 Stoichiometry Answers:

Experiment 37 Stoichiometry Answers Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Experiment 37 Stoichiometry Answers**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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