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calculations to determine the theoretical yield of Cu(s) from one of the reactions, and then compare the actual yield to determine the percent yield.

Procedure

- Label two 150-mL beakers "1" and "2," respectively. Record the mass of beaker 1.
- Measure out the following amounts of $\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$, add to the beakers, and record the actual masses:
 - 0.50 g $\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$ into beaker 1
 - 0.70 g $\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$ into beaker 2
- Add 10 mL deionized H_2O to each of the beakers; gently mix the solutions until the copper salt is completely dissolved.
- Measure out the following amounts of aluminum foil and add to the beakers in small pieces; record the actual masses:
 - 0.25 g $\text{Al}(s)$ into beaker 1
 - 0.05 g $\text{Al}(s)$ into beaker 2
- Inspect the contents of each beaker and record all observations (e.g., colors, smell, bubbling, heat formation, etc.).
- Stir the contents of each beaker periodically with a glass stirring rod and record any changes you observe.
- Once the reactions are complete (how do you know this?), record the colors of the beaker contents and any other observations.
- In beaker 1, if excess aluminum foil is still observed, then in a hood, add 6 M HCl in small portions with constant stirring until the foil is completely reacted.
- After allowing the solid copper product to settle, decant the solution, being careful to not lose any of the copper.
- Wash the copper solid with 15 mL of deionized water, let solid settle, and decant; repeat once.
- Wash the copper solid with 10 mL of methanol, let solid settle, and decant.
- In the hood, heat beaker 1 containing the copper solid on a hot plate at a low setting until dry. *Note:* Avoid heating at high temperatures for longer periods of time, which may cause the unwanted oxidation of the copper product.
- After cooling, record the mass of beaker 1 and its contents.
- Now, take a third 150-mL beaker and add 0.70 g $\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$ (record actual mass) and 10 mL deionized H_2O .
- Determine how much $\text{Al}(s)$ is needed (i.e., the stoichiometric amount) in order to completely react all of the CuCl_2 . Measure this amount out (record mass) and add it to beaker in small pieces.
- Record your observations initially, during the reaction, and at the conclusion of the reaction.
- Dispose of the contents of the beakers as indicated by your instructor.

Data Collection

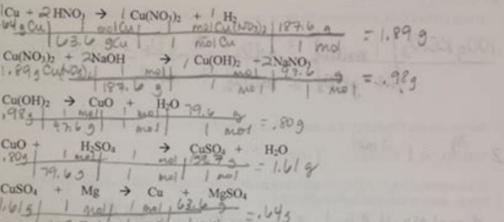
1. Mass of beaker 1:		<u>75.399g</u>
2. Mass of $\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$:	Beaker 1:	<u>.501g</u>
	Beaker 2:	<u>.700g</u>
3. Mass of $\text{Al}(s)$:	Beaker 1:	<u>.251g</u>
	Beaker 2:	<u>.050g</u>

Table 1. Experimental Masses and Calculated Amounts of Reactants

Reaction	Beaker 1	Beaker 2
Initial mass of beaker	75.399 g	75.399 g
Mass of $\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$	0.501 g	0.700 g
Mass of $\text{Al}(s)$	0.251 g	0.050 g
Final mass of beaker	75.951 g	76.149 g
Mass of product	0.552 g	0.750 g
Mass of H_2O	10.000 g	10.000 g
Mass of Cu	0.552 g	0.750 g

Honors Chemistry Stoichiometry Review Problems

1. A student carries out the following sequence of chemical reactions on a 0.64 g sample of pure copper. Find the mass of the copper containing product in each problem. Use the mass of the copper containing product formed in the previous step as the starting amount in the next step.



- How much copper should you have produced in the final step? Explain.
1.43g - conversion
- Identify the type of reaction that each of the above equations exemplifies.
redox, redox, redox, redox

4. Use the following information to solve problems:

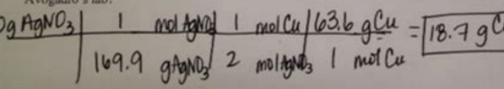
Supply of Chemicals in Dr. Avogadro's Laboratory

- 100 g of AgNO_3
- 200 g of KClO_3
- 300 g of $\text{Ca}(\text{OH})_2$
- 350 g of NaH_2PO_4
- 500 g of Na_2CO_3
- 700 g of NaCl

a. Pure silver can be made using the following reaction:

$$\text{Cu} + 2\text{AgNO}_3 \rightarrow 2\text{Ag} + \text{Cu}(\text{NO}_3)_2$$

How many grams of copper metal will be needed to use up all of the AgNO_3 in Dr. Avogadro's lab?



Now that you are comfortable using the chemicals, glassware, and tools in the virtual lab, it is time to work.

Part A

1. The solutions labeled "Solution 1" and "Solution 2" in the procedure contain unknown amounts of AgNO_3 and NaCl , respectively. When you mix equal volumes of these two solutions, one of the reactants will be limiting and the other the excess. Suggest a procedure to determine the identity of the limiting reactant in the stock solution. *Note:* You don't have to identify the limiting reactant yet, you will do that in part B.

Before proceeding with your experiment, get approval for your procedure from your instructor or your TA.

2. Perform your procedure and record the relevant data below. Record any measurements made in this space. Do not perform calculations here. You will identify the limiting reactant and perform calculations in part B on the next page.

Part B

1. Identify the limiting reactant and perform calculations to part B on the next page.

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