

Chem I

Name _____

Date _____ Per _____

Pre Lab: Iron to Copper Formal Lab

The purpose of this assignment is to prepare you for the formal lab. Read over both the Iron, Copper, and Stoichiometry lab instructions and the Formal Laboratory Report guideline sheet. Then answer the following questions. This prelab must be complete and initialed by the teacher **before** you start the lab.

1. What is the purpose (sometimes known as the problem) of this lab? _____

2. Your hypothesis will be based on a gram-gram stoichiometry calculation like those we have been doing in class.

a. What is the balanced chemical equation that you'll be using for this calculation?

b. You won't know until the day of the lab exactly how much copper(I) chloride you'll be using. You can, however, set up the calculation, leaving the amount of copper(I) chloride blank, ready to be filled in when you actually do the lab. Show the set-up for this calculation in the space below, leaving the first number blank.

3. What equipment will you need for each of the following days of the lab?

a. Day 1: _____

b. Day 2: _____

c. Day 3: _____

4. What reagents (chemicals) will you need for each of the following days of the lab?

a. Day 1:

_____, _____

b. Day 2:

c. Day 3: Just soap and water.

5. In the space below, draw the data table you will need for the lab. It should include all the measurements you will do. **Use a straight-edge** to make it look nice (a student ID works)

6. What is the possible health hazard in this lab?

a. _____

7. What is the general formula for percent yield?

8. You will be asked to perform two percent yield calculations in this lab. Show the set ups for each:

a.

b.

9. What will be the three things you'll cover in your conclusion?

a. _____

b. _____

c. _____

Prelab complete: _____