

Name \_\_\_\_\_

Date \_\_\_\_\_

### Limiting Reactant Lab

**Pre-lab Questions:** Use the background information in the lesson and the video to help you answer these questions before the lab.

1. What is a limiting reactant? (10pts)

A limiting reactant in a chemical reaction determines how much product will be produced.

2. What is an excess reactant? (10pts)

An excess reactant in a chemical reaction is present in an amount greater than what will be used to complete the reaction

3. What is the purpose of this experiment? (10pts)

to see the reaction of aluminum foil when placed in an aqueous solution of copper (II) chloride to produce copper and aluminum chloride. The purpose is to determine which of the reactants will limit the production of copper

**Procedures:** Use the video in the lesson to help you complete the data table and post-lab questions below.

Data & Observation Table (12 points)	
Mass of Al (g)	0.12 g
Volume of CuCl <sub>2</sub> (mL)	50.9 mL
Color of CuCl <sub>2</sub> solution before reaction	green
Color of Al before reaction	Silver
Color of CuCl <sub>2</sub> solution after reaction	dark cloudy green
Color of Al after the reaction	silver and brown

4. Balance the equation below: (8 pts)



# Limiting Reactant Lab Report Answers

**Rachel Sandford**



## Limiting Reactant Lab Report Answers:

**Laboratory Manual for Principles of General Chemistry** Jo Allan Beran, 2010-11-01 This new edition of the Beran lab manual emphasizes chemical principles as well as techniques The manual helps students understand the timing and situations for the various techniques The Beran lab manual has long been a market leading lab manual for general chemistry Each experiment is presented with concise objectives a comprehensive list of techniques and detailed lab intros and step by step procedures

**Instructor's Guide for Introductory Chemistry in the Laboratory** James F. Hall, 1996 **Working with Chemistry** Donald J. Wink, Sharon Fetzer-Gislason, Julie Ellefson Kuehn, 2004-02-20 With this modular laboratory program students build skills using important chemical concepts and techniques to the point where they are able to design a solution to a scenario drawn from a professional environment The scenarios are drawn from the lives of people who work with chemistry every day ranging from field ecologists to chemical engineers and include many health professionals as well

**Chemistry** McGraw-Hill Staff, 2001-07 **Forensics in Chemistry** Sara McCubbins, Angela Codron, 2012 Forensics seems to have the unique ability to maintain student interest and promote content learning I still have students approach me from past years and ask about the forensics case and specific characters from the story I have never had a student come back to me and comment on that unit with the multiple choice test at the end from the Introduction to Forensics in Chemistry The Murder of Kirsten K How did Kirsten K's body wind up at the bottom of a lake and what do wedding cake ingredients soil samples radioactive decay bone age blood stains bullet matching and drug lab evidence reveal about whodunit These mysteries are at the core of this teacher resource book which meets the unique needs of high school chemistry classes in a highly memorable way The book makes forensic evidence the foundation of a series of eight hands on week long labs As you weave the labs throughout the year and students solve the case the narrative provides vivid lessons in why chemistry concepts are relevant and how they connect All chapters include case information specific to each performance assessment and highlight the related national standards and chemistry content Chapters provide Teacher guides to help you set up Student performance assessments A suspect file to introduce the characters and new information about their relationships to the case Samples of student work that has been previously assessed and that serves as an answer key for you Grading rubrics Using Forensics in Chemistry as your guide you will gain the confidence to use inquiry based strategies and performance based assessments with a complex chemistry curriculum Your students may gain an interest in chemistry that rivals their fascination with Bones and CSI *The Student's Lab Companion* John W. Lehman, 2008 This comprehensive lab companion provides enough theory to help students understand how and why an operation works but emphasizes the practical aspects of an operation to help them perform the operation successfully in the lab For undergraduate or graduate students taking organic chemistry lab This comprehensive lab companion provides enough theory to help students understand how and why an operation works but emphasizes the practical aspects of an operation to help them perform the

operation successfully in the lab The Second Edition makes substantive revisions of many operations to clarify existing material and add new information More environmentally friendly i e green lab experiments are encouraged Ideal for professors who write their own lab experiments or would like custom labs but need a source for lab operations and safety information     **Chemistry** John S. Phillips, Cheryl Wistrom, 2000     Chemistry Eugene LeMay, Jr., Herbert Beall, Karen M. Robblee, Douglas C. Brower, Prentice-Hall Staff, 2002-02     **Government Reports Announcements & Index** ,1994

**Scientific and Technical Aerospace Reports** ,1977     *Science* John Michels (Journalist), 2010     U.S. Government Research & Development Reports ,1967     **Energy Research Abstracts** ,1985     **U.S. Government Research & Development Reports** ,1968-04     Cooperative Learning in the Chemistry Classroom Melissa Ann Flynn, 1999

**Bibliography of Scientific and Industrial Reports** ,1971     *Government Reports Announcements* ,1975-05-02

**INIS Atomindex** ,1988     Survival Handbook for the New Chemistry Instructor Diane M. Bunce, Cinzia M. Muzzi, 2004

This book provides an overview of the issues facing new chemistry faculty in preparation for teaching Serving as a reference to answer specific questions new chemistry faculty encounter this book is comparable to sitting down with a colleague in the department and talking through some ideas or gaining some pointers on how to avoid common pitfalls It is the one single place new chemistry faculty can go to find practical information on how to teach and how to prepare for teaching their first course Chapters are written both by established experts in the field and by new professors within their first couple of years of teaching     Government reports annual index ,199?

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