## Types of Chemical Reactions



#### PRE-LAB QUESTIONS

Complete the following steps for each reaction below.

- a. Name the type of reaction that is occurring
- b. State if the reaction is balanced
- c. If the reaction is not balanced, write the complete balanced reaction
- CH<sub>4</sub>(g) + O<sub>2</sub>(g) → CO<sub>2</sub>(g) + H<sub>2</sub>O(g) + Energy
  - a. Combustion reaction
  - b. Not balanced
  - c. CH<sub>4</sub>(g) + 2O<sub>2</sub>(g) -> CO<sub>2</sub>(g) + 2H<sub>2</sub>O(g) + energy
- N<sub>2</sub>O<sub>3</sub> (s) → Ni (s) + O<sub>2</sub> (g)
  - Decomposition reaction
  - b. Not balanced
  - c. 2Ni<sub>2</sub>O<sub>3</sub>(s) -> Ni(s) + 3O<sub>2</sub>(g)
- Al (s) + CuSO<sub>4</sub> (aq) → Cu (s) + Ab(SO<sub>4</sub>)<sub>5</sub> (aq)
  - a. Single replacement reaction
  - b. Not balanced.
  - 2Al(s) + 3CuSO<sub>4</sub>(aq) -> 3Cu(s) + Al<sub>2</sub>(SO<sub>4</sub>)<sub>5</sub>(aq)
- Na<sub>2</sub>CO<sub>3</sub> (aq) + HCl (aq) → NaCl (aq) + H<sub>2</sub>CO<sub>3</sub> (aq)
  - a. Double replacement reaction

# **Chemical Reactions Lab Post Lab**

Frederick A. Bettelheim, Joseph Marvin Landesberg

#### **Chemical Reactions Lab Post Lab:**

Treatise on Process Metallurgy Roderick Guthrie, Alexander McLean, Sridhar Seetharaman, H. Y. Sohn, 2024-01-25 Treatise on Process Metallurgy Volume One Process Fundamentals provides academics with the fundamentals of the manufacturing of metallic materials from raw materials into finished parts or products In these fully updated volumes coverage is expanded into four volumes including Process Fundamentals encompassing process fundamentals structure and properties of matter thermodynamic aspects of process metallurgy and rate phenomena in process metallurgy Processing Phenomena encompassing interfacial phenomena in high temperature metallurgy metallurgical process phenomena and metallurgical process technology Metallurgical Processes encompassing mineral processing aqueous processing electrochemical material and energy processes and iron and steel technology non ferrous process principles and production technologies and more The work distills the combined academic experience from the principal editor and the multidisciplinary four member editorial board Provides the entire breadth of process metallurgy in a single work Includes in depth knowledge in all key areas of process metallurgy Approaches the topic from an interdisciplinary perspective providing broad range coverage on topics **Exploring General Chemistry in the Laboratory** Colleen F. Craig, Kim N. Gunnerson, 2017-02-01 This laboratory manual is intended for a two semester general chemistry course The procedures are written with the goal of simplifying a complicated and often challenging subject for students by applying concepts to everyday life This lab manual covers topics such as composition of compounds reactivity stoichiometry limiting reactants gas laws calorimetry periodic trends molecular structure spectroscopy kinetics equilibria thermodynamics electrochemistry intermolecular forces solutions and coordination complexes By the end of this course you should have a solid understanding of the basic concepts of chemistry which will give you confidence as you embark on your career in science Million **Dollar Data: Building Confidence - Vol.1** Stephen DeMeo, 2020-07-31 Global warming our current and greatest challenge is without precedent Among the many consequences that are impacting our society one unanticipated concern involves scientific truth When the President of the United States and others in his administration declare that global warming is fake science it calls into question what real science is and what real school science should be I will argue that real science is quality science one that is based on the rigorous collection of reliable and valid data To collect quality data requires bending over backwards to get things right and this is exactly what makes science so special Truth is made when scientists go this extra yard and devise controlled experiments collect large data sets confirm the data and rationally analyze their results Making scientific truth sounds difficult to do in the science laboratory but in reality there are many straightforward ways that truth can be constructed In the first of two volumes I discuss twelve such ways I call them Confidence Indicators that can allow students to strongly believe in their data and their subsequent results Many of these methods are intuitive and can be used by young students on the late elementary level all the way up to those taking introductory college science courses As in

life science is not without doubt In the second volume I introduce the concept of scientific uncertainty and the indicators used to calculate its magnitude I will show that science is about connecting confidence with uncertainty in a specific manner what I refer to as the Confidence Uncertainty Continuum expression This important relationship epitomizes the scientific enterprise as a search for probabilistic rather than absolute truth This two volume set will contain a variety of ways that data quality can be instituted into a science curriculum To support its use many of the examples that I will present involve science teachers as well as student work and feedback from different grade levels and in different scientific disciplines Specific chapters will be devoted to reviewing the academic literature on data quality as well as describing my own personal research on this important but often neglected topic **Exploring Physical Science in the Laboratory** John T. Salinas ,2019-02-01 This full color manual is designed to satisfy the content needs of either a one or two semester introduction to physical science course populated by nonmajors It provides students with the opportunity to explore and make sense of the world around them to develop their skills and knowledge and to learn to think like scientists. The material is written in an accessible way providing clearly written procedures a wide variety of exercises from which instructors can choose and real world examples that keep the content engaging Exploring Physical Science in the Laboratory guides students through the mysteries of the observable world and helps them develop a clear understanding of challenging concepts **Techniques in Organic** Chemistry Jerry R. Mohrig, Christina Noring Hammond, Paul F. Schatz, 2010-01-06 Compatible with standard taper miniscale 14 10 standard taper microscale Williamson microscale Supports guided inquiry Cover A Manual of Clinical Laboratory Methods Clyde Lottridge Cummer, 1922 **Take-Home Chemistry** Michael Horton, 2011 For high school science teachers homeschoolers science coordinators and informal science educators this collection of 50 inquiry based labs provides hands on ways for students to learn science at home safely Author Michael Horton promises that students who conduct the labs in Take Home Chemistry as supplements to classroom instruction will enhance higher level thinking improve process skills and raise high stakes test scores The Zinc and Iodine Book Stephen DeMeo, 2019-05-15 This book is for chemistry teachers who are thinking about reinventing their laboratory experiments that they provide to their students More than a collection of experiments it is an example of using a chemical theme to teach chemistry Instead of introducing many different chemicals per experiment as is the norm in most lab manuals this novel resource focuses on two commonly found elements Zinc and Iodine So what is so special about these elements At the heart of this resource is a colorful cyclic reaction between zinc and iodine one that produces a compound that can decompose back to its original elements This unique phenomenon demonstrates that matter not only changes but is also conserved through a chemical reaction Knowing that a compound can be the same but different than the reactants that formed it is to understand the essence of chemical change Complementing this reaction this book contains experimental activities that utilize the zinc and iodine theme to scaffold new concepts such as the properties of matter solid and gas stoichiometry equilibrium kinetics acid base chemistry and electrochemistry This

teacher tested resource focuses on a set of safe substances that are appropriate for high school teachers who provide an advanced chemistry placement course and for college instructors teaching a first year chemistry laboratory sequence

Chemical Abstracts ,1920 Chemical Interactions, 2005. **Quarterly Cumulative Index to Current Medical Literature. V. 1-12; 1916-26**,1921 Quarterly Cumulative Index to Current Medical Literature ,1919 Gurgle, Pop! Chemical Reactions in the Lab Daniel R. Faust, 2020-07-15 Whether they are testing a new drug creating new materials or checking the safety of our food and water all scientists follow the scientific method One of the major steps in the scientific method is testing your hypothesis That's when scientists hit the lab This volume stresses the important of safety in the laboratory whether it s a school science lab or the most high tech research facility. It also examines the proper rules and procedures everyone must follow when working with chemicals in the lab Fact boxes and full color photographs support the age appropriate text Laboratory Experiments for General, Organic & Biochemistry Frederick A. Bettelheim, Joseph Marvin Landesberg, 1997 Green Organic Chemistry Kenneth M. Doxsee, James E. Hutchison, 2004 This lab text describes the tools and strategies of green chemistry and the lab experiments that allow investigation of organic chemistry concepts and techniques in a greener laboratory setting Students acquire the tools to assess the health and environmental impacts of chemical processes and the strategies to improve develop new processes that are less harmful to human health and the environment The curriculum introduces a number of state of the art experiments and reduces reliance on expensive environmental controls such as fume hoods Provided by publisher The National Druggist ,1919

<u>Wallerstein Laboratories Communications on the Science and Practice of Brewing</u> Wallerstein Laboratories,1950 <u>An Introductory Guide to EC Competition Law and Practice</u> Valentine Korah,1994 *The Scarlet Letter*,1905 <u>The Science</u> Teacher ,2000

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