

# Physical and Chemical Changes Dry Lab

09/30/2021

## Purpose

In this lab we explored chemical and physical changes. The purpose is to determine the difference between a physical and chemical change. A physical change can result in the change of appearance or state but the chemical composition remains the same. In a chemical change, products are formed that differ than the original composition. This can be detected through gas formation, absorption or creation of heat, among other things.

## Procedure

Make sure that you have stable internet connection and pull up data table 1. Once you have the table ready, go to activity 1. Record the chemicals that are being mixed in the table. Then, click on the link to view what happens when the two chemicals are mixed. Record your initial observations of the two chemicals and anything that happens when they are mixed. This includes if gas is produced, if the colors change, if the temperature changes, if a precipitate forms, etc. View the video as many times to get a thorough observation of the reaction. Once you are confident, determine if it is a chemical or physical change, record it in the data table and provide an explanation for why it is this type of change. Repeat this for activity 2-9.



# Lab Report On Chemical Change

**Andreas Hebbel-Seeger, Torsten  
Reiners, Dennis Schäffer**



## **Lab Report On Chemical Change:**

America's Lab Report National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Board on Science Education, Committee on High School Laboratories: Role and Vision, 2006-01-20 Laboratory experiences as a part of most U S high school science curricula have been taken for granted for decades but they have rarely been carefully examined What do they contribute to science learning What can they contribute to science learning What is the current status of labs in our nation s high schools as a context for learning science This book looks at a range of questions about how laboratory experiences fit into U S high schools What is effective laboratory teaching What does research tell us about learning in high school science labs How should student learning in laboratory experiences be assessed Do all student have access to laboratory experiences What changes need to be made to improve laboratory experiences for high school students How can school organization contribute to effective laboratory teaching With increased attention to the U S education system and student outcomes no part of the high school curriculum should escape scrutiny This timely book investigates factors that influence a high school laboratory experience looking closely at what currently takes place and what the goals of those experiences are and should be Science educators school administrators policy makers and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum and how that can be accomplished

**Interactions of Matter** Christine Caputo, 2010 A look at how different elements interact in chemical reactions to form compounds with new properties Microbia Eugenia Bone, 2018-04-03 From Eugenia Bone the critically acclaimed author of *Mycophilia* comes an approachable highly personal look at our complex relationship with the microbial world While researching her book about mushrooms Eugenia Bone became fascinated with microbes those life forms that are too small to see without a microscope Specifically she wanted to understand the microbes that lived inside other organisms like plants and people But as she began reading books scholarly articles blogs and even attending an online course in an attempt to grasp the microbiology she quickly realized she couldn t do it alone That s why she enrolled at Columbia University to study Ecology Evolution and Environmental Biology Her stories about being a middle aged mom embedded in undergrad college life are spot on and hilarious But more profoundly when Bone went back to school she learned that biology is a vast conspiracy of microbes Microbes invented living and as a result they are part of every aspect of every living thing This popular science book takes the layman on a broad survey of the role of microbes in nature and illustrates their importance to the existence of everything atmosphere soil plants and us

**Modern Trends In Chemical Reaction Dynamics - Part I: Experiment And Theory** Kopin Liu, Xueming Yang, 2004-03-09 The field of chemical reaction dynamics has made tremendous progress during the last decade or so This is due largely to the development of many new state of the art experimental and theoretical techniques during that period It is beneficial to present these advances both theoretical and experimental in a review volume published in two parts Parts I and II The primary purpose of this review

volume is to provide graduate students and experts in the field with a rather detailed picture of the current status of advanced experimental and theoretical research in chemical reaction dynamics All chapters in these two parts have been written by world renowned experts active in such research

**Chemistry in the Laboratory** James M. Postma, Julian L. Robert, J. Leland Hollenberg, 2004-03-12 This clearly written class tested manual has long given students hands on experience covering all the essential topics in general chemistry Stand alone experiments provide all the background introduction necessary to work with any general chemistry text This revised edition offers new experiments and expanded information on applications to real world situations

**Synthetic Worlds** Andreas Hebbel-Seeger, Torsten Reiners, Dennis Schäffer, 2013-08-13 Synthetic Worlds Virtual Worlds and Alternate Realities are all terms used to describe the phenomenon of computer based simulated environments in which users inhabit and interact via avatars The best known commercial applications are in the form of electronic gaming and particularly in massively multiplayer online role playing games like World of Warcraft or Second Life Less known but possibly more important is the rapid adoption of platforms in education and business where Serious Games are being used for training purposes and even Second Life is being used in many situations that formerly required travel The editors of this book captures the state of research in the field intended to reflect the rapidly growing yet relatively young market in education and business The general focus is set on the scientific community but integrates the practical applications for businesses with papers on information systems business models and economics In six parts international authors all experts in their field discuss the current state of the art of virtual worlds alternate realities and how the field will develop over the next years Chapters discuss the influences and impacts in and around virtual worlds Part four is about education with a focus on learning environments and experiences pedagogical models and the effects on the different roles in the educational sector The book looks at business models and how companies can participate in virtual worlds while receiving a return on investment and includes cases and scenarios of integration from design implementation to application

*Overburden Mineralogy as Related to Ground-water Chemical Changes in Coal Strip Mining* Arthur Hounslow, Robert S. Kerr Environmental Research Laboratory, Colorado School of Mines. Research Institute, 1978 Annual Report - Brookhaven National Laboratory Brookhaven National Laboratory, 1952

**Crime Lab Report** John M. Collins, 2019-09-17 Crime Lab Report compiles the most relevant and popular articles that appeared in this ongoing periodical between 2007 and 2017 Articles have been categorized by theme to serve as chapters with an introduction at the beginning of each chapter and a description of the events that inspired each article The author concludes the compilation with a reflection on Crime Lab Report the retired periodical and the future of forensic science as the 21st Century unfolds Intended for forensic scientists prosecutors defense attorneys and even students studying forensic science or law this compilation provides much needed information on the topics at hand Presents a comprehensive look behind the curtain of the forensic sciences from the viewpoint of someone working within the field Educates practitioners and laboratory

administrators providing talking points to help them respond intelligently to questions and criticisms whether on the witness stand or when meeting with politicians and or policymakers Captures an important period in the history of forensic science and criminal justice in America *AERE C/R* ,1956 **Report of the Dominion Grain Research Laboratory** Canada. Grain research laboratory, Winnipeg, Man,1920 Annual Report of the Maine Agricultural Experiment Station Maine Agricultural Experiment Station,1909 *Report of the Dominion Grain Research Laboratory, Winnipeg, Man* Grain Research Laboratory (Canada),1920 **Laboratory Exercises in Microbiology** Robert A. Pollack,Lorraine Findlay,Walter Mondschein,R. Ronald Modesto,2018-07-11 The Laboratory Exercises in Microbiology 5e by Pollack et al presents exercises and experiments covered in a 1 or 2 semester undergraduate microbiology laboratory course for allied health students The labs are introduced in a clear and concise manner while maintaining a student friendly tone The manual contains a variety of interactive activities and experiments that teach students the basic concepts of microbiology The 5th edition contains new and updated labs that cover a wide array of topics including identification of microbes microbial biochemistry medical microbiology food microbiology and environmental microbiology *Faith's Genesis* Susan Withrow,2009-11-20 Spiritual gifts are given to all of us It is through these gifts our lives take flight In a relationship with Princess Juliana Radcliffe of Liechtenstein Jonathan Baker became a father He never thought her a princess Or that loving her would be dangerous Until a political threat arose Forcing their flight to protect their young family Years have passed and now their children Princess Apparent Catherine and Prince Apparent Trevor are poised for their irrevocable futures The spiritual gifts of others guide their journey For Catherine a chance encounter with a high school friend leads to motherhood s door The spiritual connection to her and her brother s past finds its advent with this new life Her journey finds its roots in the spiritual gifts of others gaining momentum through unsurpassable love deep secrets prophecies and shocking revelations Can she pull the pieces together to help her family return to normalcy and their thrones Report summaries United States. Environmental Protection Agency,1983 **Subject Index to Unclassified ASTIA Documents** Defense Documentation Center (U.S.),1960

**100 Brain-Friendly Lessons for Unforgettable Teaching and Learning (9-12)** Marcia L. Tate,2019-07-24 Use research and brain based teaching to engage students and maximize learning Lessons should be memorable and engaging When they are student achievement increases behavior problems decrease and teaching and learning are fun In 100 Brain Friendly Lessons for Unforgettable Teaching and Learning 9 12 best selling author and renowned educator and consultant Marcia Tate takes her bestselling Worksheets Don t Grow Dendrites one step further by providing teachers with ready to use lesson plans that take advantage of the way that students really learn Readers will find 100 cross curricular sample lessons from each of the four major content areas Plans designed around the most frequently taught objectives Lessons educators can immediately adapt 20 brain compatible research based instructional strategies Questions that teachers should ask and answer when planning lessons Guidance on building relationships with students to maximize learning *A Deeper Learning*

*Companion for CLIL* Do Coyle, Oliver Meyer, Susanne Staschen-Dielmann, 2023-02-23 Offers ready made theory driven deeper learning materials across subjects to show how to put a pluriliteracies approach into practice     *Experimental Organic Chemistry* Daniel R. Palleros, 2000-02-04 This cutting edge lab manual takes a multiscale approach presenting both micro semi micro and macroscale techniques The manual is easy to navigate with all relevant techniques found as they are needed Cutting edge subjects such as HPLC bioorganic chemistry multistep synthesis and more are presented in a clear and engaging fashion

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