

## Experiment 17-Chemical Reactions Lab

Since the Middle Ages, when ancient physicians attempted to find a magical substance that would cure all diseases, humans have been fascinated with chemical reactions. In order to effectively describe these changes, a system for and series of short hand notation was developed to aid ancient and now modern chemists classify chemical reactions.

The names of the basic building blocks of matter (elements) have historically interesting names such as Ytterbium, named after a cute little town in Sweden, and Plumbus, named after a metal (lead) that was used for water pipes in ancient Rome. The names of *compounds*, or combinations of different elements, are much more complicated. To simplify matters, chemists use one or two letter abbreviations for the elements. Writing a compound is simplified by using a *chemical formula*, or a series of symbols that represent the elements present in the compound.

Chemical compounds, as we will learn, have definite, whole number ratios of various. Typically, the atoms in a compound are listed in the formula in the order (from left to right) that the elements appear on the periodic table. The number ratios of the atoms in a compound are shown by using *subscripts* (little numbers that are lower than the rest of the text) just to the right of the element. Examples of formulas are shown below.

NaCl	sodium chloride, with 1 sodium atom and 1 chlorine atom
CO <sub>2</sub>	carbon dioxide, with 1 carbon atom for every 2 oxygen atoms
HCl	hydrochloric acid, with 1 hydrogen atom for each chlorine atom

A chemical reaction involves elements and/or compounds combining, separating or changing partners in various ways. Again, describing such a complicated process in words is difficult, so a *chemical reaction equation* is used. The equation shows the chemical formula(s) of the starting compound(s), called *reactants*, and the final compound(s), called *products*. The reactants are always shown on the left, and the products on the right, and they are separated by an arrow to ensure that no one is confused on which direction the reaction is going. A general chemical reaction equation for a reaction called combination is shown below, and a specific example follows.



If you would like to read the equation aloud, this is what the general reaction #1 would say: A reacts with B to make C. Equation 2 would read: Carbon reacts with oxygen to make carbon dioxide. The funny letters in parentheses in equation 2 represent the *physical state* that the matter is in, such as gas (g), liquid (l), solid (s), or dissolved in water (aq).

In order to aid chemists in recognizing and describing reactions, several types of reactions are classified into groups. Equation 2 is an example of a *combination* reaction, where two reactants combine to form 1 product. Examples of other types of reactions are listed below:

*Decomposition*, where one reactant decomposes or separates into 2 or more simpler products:



Carbonic acid decomposes in water to make carbon dioxide gas and water.

# Chemical Reaction Lab Report Conclusion

**RJ Alexander**



## **Chemical Reaction Lab Report Conclusion:**

*Interactions of Matter* Christine Caputo, 2010 A look at how different elements interact in chemical reactions to form compounds with new properties

**CHEMISTRY EXPERIMENTS** James Signorelli, 2014-09-19 Gifted and talented students and any student interested in pursuing a science major in college needs a rigorous program to prepare them while they are still in high school This book utilizes a format where the application of several disciplines science math and language arts principles are mandated Each lab concludes with either an essay or a detailed analysis of what happened and why it happened This format is based on the expectations of joining a university program or becoming an industrial science professional The ideal student lab report would be written in a lab research notebook and then the essay or final analysis is done on a word processor to allow for repeat editing and corrections The research notebook has all graph pages a title section and a place for the students and their assistants to sign and witness that exercise The basic mechanics of the lab report title purpose procedure diagrams data table math and calculations observations and graphs are handwritten into the book The conclusion is done on a word processor MS Word which allows the instructor to guide the student in writing and editing a complete essay using the MLA format When the final copy is completed the essay is printed and inserted into the lab notebook for grading At the end of the term the student has all their labs in one place for future reference These lab notebooks can be obtained for as little as 3 00 per book This is money well spent In our district the Board of Education buys the books for each student The BOE sees these books as expendable but necessary materials for all science and engineering instruction

*Everything You Need to Ace Chemistry in One Big Fat Notebook* Workman Publishing, Jennifer Swanson, 2020-09-01 Chemistry No problem This Big Fat Notebook covers everything you need to know during a year of high school chemistry class breaking down one big bad subject into accessible units Learn to study better and get better grades using mnemonic devices definitions diagrams educational doodles and quizzes to recap it all Including Atoms elements compounds and mixtures The periodic table Quantum theory Bonding The mole Chemical reactions and calculations Gas laws Solubility pH scale Titrations Le Chatelier's principle and much more

*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

*Gulf War illnesses DOD's conclusions about U.S. troops' exposure cannot be adequately supported : report to congressional requesters. ,* [The Better Writing Breakthrough](#)

Eleanor Dougherty,Laura Billings,Terry Roberts,2016-03-04 Every teacher knows the challenge of trying to engage reluctant readers and struggling writers students whose typical response to a writing prompt is a few sentence fragments scribbled on a sheet of paper followed by an elaborate shrug of the shoulders The best way to engage less confident readers and writers is to give them something powerful to think about The Discourse and Writing Cycle explores writing as a means to focus student thinking fuel deeper learning and build complex understanding in English social studies math and science This field tested approach from well respected experts Eleanor Dougherty Laura Billings and Terry Roberts is designed for use in grades 4 12 The book explores the three interrelated sequences of the cycle the Discourse Sequence the Transition to Writing Sequence and the Writing Sequence and includes classroom examples and sample lesson plans from across the content areas The cycle will inspire you as a teacher and help you to inspire your students to write with confidence and competence How often we dim or extinguish the creative sparks that can come from good writing William Butler Yeats proclaimed that Education is not the filling of a pail but the lighting of a fire This book lights the fire for the teaching of writing John Hattie author of the Visible Learning books

*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

[Chemistry](#) Dorin,Prentice Hall Dictionary Editors,1992 [The Science Teacher](#) ,2008 SCC Library has 1964 cur

**EduGorilla's CBSE Class 12th Chemistry Lab Manual | 2024 Edition | A Well Illustrated** EduGorilla Prep Experts, *Illinois Chemistry Teacher* ,2007-09 *Forensic Investigation of Clandestine Laboratories* Donnell R. Christian, Jr.,2022-06-20 Forensic Investigation of Clandestine Laboratories Second Edition is fully updated to address all aspects of the

forensic investigation of clandestine laboratories While the first edition focused on the domestic clandestine manufacture of contraband substances this edition expands the scope to more fully address the clandestine manufacture of explosives that have become a threat that is global in nature In clandestine laboratory operations equipment is often simple household chemical products are utilized and the education of the operators basic In fact most of the time these elements individually are perfectly legal to sell and possess However the combination of all these elements is what becomes the scene of illicit activity and a criminal operation In response to the increase in use of homemade explosive mixtures by terrorists both domestically and internationally the section clandestine manufacture of explosives is greatly enhanced Topics are presented in a manner which while detailed will not compromise the tactics techniques or procedures utilized by law enforcement and military personnel in their ability to combat the clandestine manufacture of contraband substances and the battle against domestic and international terrorism Key features Examines tell tale signs to look for in recognizing a clandestine lab Outlines how to safely process the site of a clandestine lab Details how to analyze collected evidence in the examination laboratory Provides guidelines as to what to derive from the physical evidence Offers specific tactics to effectively present the opinions associated with evidence that has been collected during the investigation in a written report military style briefing or to a jury in a legal proceeding Forensic Investigation of Clandestine Laboratories Second Edition guides the reader through the process of recognizing these illegal manufacturing operations Then it examines the methods as to how to compile the volume of associated evidence into a package that can be presented in a court of law or to military commanders for decisive action It is an invaluable resource that will prove useful to chemistry lab technicians forensic investigators fire and first responder professionals military personnel police investigative agencies and narcotics units and lawyer trying cases involving clandestine labs *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 Scientific and Technical Aerospace Reports ,1994

**U.S. Government Research Reports** ,1964 **Home Education Masterclass: The Science Lab at Home** Nicole Young, Welcome to the exciting world of science This book is your passport to a thrilling adventure filled with experiments discoveries and a whole lot of fun Whether you re a parent looking for engaging activities for your children an educator supplementing classroom learning or simply a curious individual eager to explore the wonders of science this book is designed for you Inside you ll find a collection of exciting experiments covering a wide range of scientific disciplines including chemistry biology physics and environmental science We ve carefully chosen experiments that are not only fun and educational but also safe and accessible using readily available household materials whenever possible This book is structured to guide you through the basics of setting up a home science lab ensuring safety and efficiency while encouraging

a systematic approach to learning We emphasize the importance of careful observation record keeping and the application of the scientific method fostering critical thinking and problem solving skills Each chapter delves into a specific area of science introducing fundamental concepts through engaging experiments that bring abstract ideas to life We explain complex scientific processes in a clear and concise manner avoiding unnecessary jargon and using simple age appropriate language The step by step instructions are easy to follow and safety precautions are clearly highlighted throughout the book Visual aids such as illustrations and photographs are included to enhance understanding and engagement Beyond the individual experiments we encourage a spirit of inquiry and exploration guiding children to ask questions form hypotheses and analyze their results developing essential scientific skills We believe that learning should be an exciting adventure and we hope this book will ignite a lifelong passion for science in you and your children Let s embark on this incredible journey of scientific discovery together Prepare to be amazed

**Forensic Investigation of Clandestine Laboratories** Jr., Donnell R.

Christian,2003-07-28 Clandestine lab operators are not the mad scientists whose genius keeps them pent up in the laboratory contemplating elaborate formulas and mixing exotic chemicals In fact their equipment is usually simple their chemicals household products and their education basic Most of the time the elements at the scene are perfectly legal to sell and own

An Introductory Guide to EC Competition Law and Practice Valentine Korah,1994

**A Deeper Learning Companion**

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**Forensic Science Reform** Wendy J Koen,C. Michael Bowers,2016-12-16

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