

Observing and describing chemical reactions

Aim

The aim of this experiment is to perform simple chemical reactions, whilst handling chemical reagents and simple laboratory glassware so that one may make careful observation and record observations. To allow one to write simple chemical reactions to support the observations made.

Method

The procedure described in the CEM1008F Practical Manual Experiment 3 (p.3- 6) was followed, excluding steps 2 and 7.

Results

A table showing the Reactants, Observations and balanced chemical reaction of each experiment.

Experiment	Reactants	Observations	Balanced Chemical equation
1	$\text{AgNO}_3(\text{aq})$ [Silver Nitrate Solution], $\text{Cu}(\text{s})$ [Copper]	Solid Silver began to form on the copper's surface as the silver ions reduced gaining electrons from the oxidised copper. The oxidised copper formed Copper (II) Nitrate making the solution blue. Solid Silver becomes a precipitate of the reaction as a result of the reduction.	$\text{Cu}(\text{s}) + 2\text{AgNO}_3(\text{aq}) \rightarrow \text{Cu}(\text{NO}_3)_2(\text{aq}) + 2\text{Ag}(\text{s})$
3	$\text{Pb}(\text{NO}_3)_2(\text{aq})$ [Lead Nitrate Solution], $\text{Zn}(\text{s})$ [Zinc]	The solution went from colourless to pale yellow as a result of the dissociation reaction that occurred as the Zn replaced the Lead hence, the product Zinc (II) Nitrate is formed which can be attributed to the resultant light yellow.	$\text{Zn}(\text{s}) + \text{Pb}(\text{NO}_3)_2(\text{aq}) \rightarrow \text{Zn}(\text{NO}_3)_2(\text{aq}) + \text{Pb}(\text{s})$
4.1)	FeCl_3 [Iron(III) Chloride], $\text{Na}_2\text{SiO}_3(\text{aq})$ [Sodium Silicate Solution]	When Placed into the Sodium Silicate Solution the Orange Iron (III) Chloride underwent a reaction with the solution and formed Iron Silicate which is responsible for the observed Brown Crystals that one observes growing from the base of the test	$2\text{FeCl}_3(\text{s}) + 3\text{Na}_2\text{SiO}_3(\text{aq}) \rightarrow \text{Fe}_2(\text{SiO}_3)_3(\text{s}) + 6\text{NaCl}(\text{aq})$

Observing Chemical Reactions Review and Reinforce

Ensheng Dong



Observing Chemical Reactions Review and Reinforce:

Chemical Regulation: Observations on Improving the Toxic Substances Control Act John Stephenson, 2011 This is a print on demand edition of a hard to find publication The EPA is authorized under the Toxic Substances Control Act TSCA to obtain information on the risks of chemicals and to control those that it determines to pose an unreasonable risk EPA also conducts assessments of chemicals under its Integrated Risk Information System IRIS program Nonetheless EPA does not have sufficient information to determine whether it should establish controls to limit public exposure to many chemicals that may pose substantial health risks This testimony addresses EPA's implementation of TSCA and IRIS and options for 1 obtaining more information on chemical risks 2 controlling these risks and 3 sharing more of the information collected under TSCA Illustrations *Prentice Hall Science Explorer* Michael J. Padilla, 2002 *Matter* Prentice-Hall Staff, 1994 The Electrical Review, 1897 **Milliken's Complete Book of Instant Activities - Grade 5** Deborah Kopka, 2010-09-01 With more than 110 easy to use reproducible worksheets this series is ideal for enrichment or for use as reinforcement The instant activities in these books are perfect for use at school or as homework They feature basic core subject areas including language arts math science and social studies **Biology** Kenneth Raymond Miller, Prentice Hall (School Division), 1999-02

Time-Series Observations of Ocean Acidification: a Key Tool for Documenting Impacts on a Changing Planet Abed El Rahman Hassoun, Adrienne J. Sutton, Sam Dupont, Jose Martin Hernandez-Ayon, Xianghui Guo, 2025-04-15 Ocean acidification is a global phenomenon with local effects Marine ecosystems are facing multiple stressors leading to significant changes Time series observations are the basis to understand these changes and distinguishing between natural and anthropogenic variability of physical chemical and biological components of marine environments Moreover field monitoring is often neglected as a tool to document the responses of marine organisms and key habitats to ocean acidification Time series observations of ocean acidification are thus critical to understanding the current threats that the ocean's ecosystems are witnessing and efficiently developing and implementing adaptation and mitigation solutions Time series dedicated to observing ocean acidification other stressors as well as biological parameters are the baseline for long term assessment of the ocean's health and for evaluating the efficiency of local and global actions toward achieving climate targets Therefore the goal of this Research Topic is to highlight the latest research efforts conducted to document ocean acidification patterns and trends and their consequences on marine life In this issue we will focus on new and old time series stations efforts to bridge physical chemical and biological observations and their application for modeling and future projections *Advances in Physical Organic Chemistry*, 1984-12-10 *Advances in Physical Organic Chemistry* **Matter, Building Block of the Universe**, 1993 Physical Science: Chemical Changes Globe Fearon, Seymour Rosen, 1999 **Essential Practices for Creating, Strengthening, and Sustaining Process Safety Culture** CCPS (Center for Chemical Process Safety), 2018-07-31 An essential guide that offers an understanding of and the practices needed to assess and strengthen

process safety culture Essential Practices for Developing Strengthening and Implementing Process Safety Culture presents a much needed guide for understanding an organization's working culture and contains information on why a good culture is essential for safe cost effective and high quality operations The text defines process safety culture and offers information on a safety culture's history organizational impact and benefits and the role that leadership plays at all levels of an organization In addition the book outlines the core principles needed to assess and strengthen process safety culture such as maintain a sense of vulnerability combat normalization of deviance establish an imperative for safety perform valid timely hazard and risk assessments ensure open and frank communications learn and advance the culture This important guide also reviews leadership standards within the organizational structure warning signs of cultural degradation and remedies as well as the importance of using diverse methods over time to assess culture This vital resource Provides an overview for understanding an organization's working culture Offers guidance on why a good culture is essential for safe cost effective and high quality operations Includes down to earth advice for recognizing assessing strengthening and sustaining a good process safety culture Contains illustrative examples and cases studies and references to literature codes and standards Written for corporate business and line managers engineers and process safety professionals interested in excellent performance for their organization Essential Practices for Developing Strengthening and Implementing Process Safety Culture is the go to reference for implementing and keeping in place a culture of safety

Science Interactions, 1998 Course 2

Glencoe/McGraw-Hill,1998 *Using ICT to Enhance Teaching and Learning in Chemistry* Steve Lewis,2004 Information and Communications Technology has revolutionised the ways we process access and use information and as computers and other devices become ever more powerful and information becomes more readily available the next generation will need to be able to interact with digital media effectively to exploit these amazing new technologies to their full potential for the benefit of society It is therefore imperative that teachers become familiar with ICT and its true potential and can present information with a perspective similar to that which the present generation of young people is using to develop their interests in their everyday life This resource from the RSC gives teachers of chemistry the practical help needed to integrate ICT into their teaching and stimulate the enthusiasm of a new generation of scientists in the exciting new areas of chemistry that are opening up such as Nanoscience and Nanotechnology Furthermore it will be highly effective in developing the new ethos of sustainability that will be a major driving force behind the next advances in chemistry that are vital if we are to survive the manifold problems confronting society in the next few decades This resource is ideal for all secondary teachers of chemistry trainee teachers and university lecturers *Neuropsychopharmacology of Psychosis: Relation of Brain Signals, Cognition and Chemistry* André Schmidt,Stefan Borgwardt,2015-04-22 Nothing provided *The Nature and Tectonic Significance of Fault Zone Weakening* Robert E. Holdsworth,2001 Many faults appears to form persistent zones of weakness that fundamentally influence the distribution architecture and movement patterns of crustal scale deformation and associated

processes in both continental and oceanic regions They act as conduits for the focused migration of economically important fluids and also constitute one of the most important global geological hazards This book brings together papers by an international group of Earth Scientists to discuss a broad range of topics centred upon the controls of fault weakening and the role of such faults during lithosphere deformation **Psychopharmacology Abstracts** ,1972 **PeriAnesthesia Nursing Core Curriculum E-Book** ASPAN,Lois Schick,Pamela E Windle,2009-10-28 Written by the American Society of PeriAnesthesia Nurses ASPAN this all in one reference includes all of the vital information you need to succeed on the CAPA and CPAN certification exams and excel in practice Coverage of both in hospital and ambulatory care makes PeriAnesthesia Nursing Core Curriculum 2nd Edition the perfect text for any care setting Plus new chapters on bariatric care and postoperative and postdischarge nausea and vomiting and the newest guidelines in all key clinical areas keep you up to date with the latest advances and concerns in the field Authored by ASPAN the ultimate authority on scope of practice competency and patient care in perianesthesia nursing for the most reliable content available Combined perianesthesia nursing and ambulatory surgical nursing core curriculum focuses on the full scope of perianesthesia nursing regardless of the setting making it an ideal resource for in hospital and ambulatory practice An entire section on life span considerations addresses basic human growth and development changes for each major age group to prepare you to treat patients of any age Competency of Preoperative Assessment and Core Competencies of PACU Nursing provide the thorough coverage you need to prepare for and pass the CAPA and CPAN exams A section on surgical specialties includes detailed information for each specialty area including anatomy and physiology pathophysiology operative procedures postanesthesia priorities extended observation and potential complications including anesthesia and pain management Appendixes on certification and test taking strategies provide outstanding tools to prepare for success on the perianesthesia certification exams Expert editors Lois Schick and Pamela Windle share their years of experience in the field and as former Presidents of ASPAN to provide current clinically applicable perianesthesia patient care information Postoperative and Postdischarge Nausea and Vomiting chapter helps you identify patients more likely to be at risk for nausea and vomiting take preventive measures and provide proper care Bariatric Care covers screening pre procedure and post procedure care of patients undergoing bariatric surgery and prepares you for the special challenges and concerns associated with this patient population Updated 2008 2010 Standards on all perianesthesia topics have been implemented throughout to ensure you have the latest content to study for both the CAPA and CPAN exams and provide the best most cutting edge patient care possible Increased coverage of ambulatory care integrated into each surgical care chapter includes vital information on assessing caring for and educating patients of outpatient procedures before sending them home The Care and Surgical chapters have been combined to make it easy to find the relevant care information for each surgical procedure by specialty *Science Workshop Series: Chemical changes* Seymour Rosen,2000 This program presents science concepts in areas of biology earth science chemistry and

physical science in a logical easy to follow design that challenges without overwhelming This flexible program consists of 12 student texts that can easily supplement an existing science curriculum or be used as a stand alone course Reading Level 4 5 Interest Level 6 12 Matter and Energy ,2005 **Resources for Teaching Middle School Science** Smithsonian Institution,National Academy of Engineering,National Science Resources Center of the National Academy of Sciences,Institute of Medicine,1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

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