

**Double-Replacement Precipitation Lab**

**Introduction:** Double-Replacement reactions occur when two ionic solutions mix to form an insoluble solid. If all cations and anions are soluble then no reaction will occur. During the lab procedure, several ionic solutions will be mixed to determine if a precipitate reaction will occur. Those reactions that do not form a precipitate will be marked for No Reaction (NR). Students will practice writing and balancing double-replacement reactions.

**Pre-Lab questions:**

1. How would you describe a double replacement reaction to a friend who is struggling with reaction types?
2. What is a precipitate?

**Materials:**

- 0.2M sodium bromide, NaBr
- 0.2M sodium carbonate,  $\text{Na}_2\text{CO}_3$
- 0.2M sodium phosphate,  $\text{Na}_3\text{PO}_4$
- 0.2M sodium sulfate,  $\text{Na}_2\text{SO}_4$
- 0.2M sodium hydroxide, NaOH
- Transparency paper
- 0.2M lithium chloride, LiCl
- 0.2M copper(II) chloride,  $\text{CuCl}_2$
- 0.2M zinc chloride,  $\text{ZnCl}_2$
- 0.2M strontium chloride,  $\text{SrCl}_2$
- 0.2M barium chloride  $\text{BaCl}_2$
- Background paper Template

**Safety:** You MUST wear goggles during this lab activity

**Procedure:**

1. Place the overhead sheet over the background paper.
2. Using the Data Table as a guide, mix every possible pair of solutions in a separate square of the background paper. **Use 1 or 2 drops of each solution.** Do NOT contaminate the individual pipets with different solutions.
3. Mix the solutions with a rinsed toothpick if you are uncertain if a precipitate formed. Rinse the toothpick after EACH mixing – be careful of which end of the rod you use so that you do not touch the chemicals or contaminate your samples!
4. Observe each mixture carefully for signs of a precipitate. (Some precipitates are light in color and hard to see so you may want to slide the transparency over the black lab top on occasion.) Record your observations (presence or absence of a precipitate, and other characteristics such as color, texture, etc.) in the Data Table. If nothing happens, write NR for no reaction.
5. Rinse and wipe the transparency sheet into the sink. Dry the sheet.

**Observations:** Write the observations you made from combining these materials in the spaces in the table below. Note any color changes or precipitate (cloudiness/solid). If no change is observed write NR for no reaction.

	NaBr	$\text{Na}_2\text{CO}_3$	$\text{Na}_3\text{PO}_4$	$\text{Na}_2\text{SO}_4$	NaOH
LiCl					
$\text{CuCl}_2$					
$\text{ZnCl}_2$					
$\text{SrCl}_2$					
$\text{BaCl}_2$					

# Double Replacement Reaction Lab 27 Answers

**RM Cervero**



## **Double Replacement Reaction Lab 27 Answers:**

*Chemistry* Eugene LeMay, Jr., Herbert Beall, Karen M. Robblee, Douglas C. Brower, Prentice-Hall Staff, 2002-02

Regents Exams and Answers: Chemistry--Physical Setting Revised Edition Barron's Educational Series, Albert Tarendash, 2021-01-05 Barron's Regents Exams and Answers Chemistry provides essential practice for students taking the Chemistry Regents including actual recently administered exams and thorough answer explanations for all questions This book features Eight actual administered Regents Chemistry exams so students can get familiar with the test Thorough explanations for all answers Self analysis charts to help identify strengths and weaknesses Test taking techniques and strategies A detailed outline of all major topics tested on this exam A glossary of important terms to know for test day

## **Comprehensive Multiple-Choice Questions in Pathology** Vinay Kumar Kohli, Chitra Kohli, Akanksha

Singh, 2022-08-22 This book concisely provides important Pathology concepts to aid pathology trainees including medical students and resident physicians in passing any advanced pathology examination It provides a much needed revision aid and study guide Through dedicated questions and answers over 23 chapters covering every major organ system the book will develop skills needed to deal with different aspects of pathology in a systematic yet summarized manner The book helps solve problems faced by trainees by providing the highest yield content Throughout the book an intuitive and systematic approach is used to reinforce fundamental concepts

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Walker, Elaine Wood, 2008-04-21 In this second edition of Hands On General Science Activities with Real Life Applications Pam Walker and Elaine Wood have completely revised and updated their must have resource for science teachers of grades 5 12 The book offers a dynamic collection of classroom ready lessons projects and lab activities that encourage students to integrate basic science concepts and skills into everyday life

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NEET PG Exam Pattern NEET PG Previous Papers

**American Men of Science**, 1949

*Cell-Free Synthetic Biology* Jian

Li, Yong-Chan Kwon, Yuan Lu, Simon J. Moore, 2022-01-13

Prentice Hall Chemistry, 2000

Microfluidics Yujun

Song, Daojian Cheng, Liang Zhao, 2018-01-04 The first book offering a global overview of fundamental microfluidics and the wide range of possible applications for example in chemistry biology and biomedical science As such it summarizes recent progress in microfluidics including its origin and development the theoretical fundamentals and fabrication techniques for microfluidic devices The book also comprehensively covers the fluid mechanics physics and chemistry as well as applications in such different fields as detection and synthesis of inorganic and organic materials A useful reference for non specialists and a basic guideline for research scientists and technicians already active in this field or intending to work in microfluidics

Clinical Pathology Board Review E-Book Suzanne Arinsburg, Jeffrey Jhang, 2024-11-12 Covering all of the major subject areas of this complex field Clinical Pathology Board Review 2nd Edition is the ultimate guide for those preparing to take

certification recertification and specialty board exams This essential study guide has been revised from cover to cover making it an excellent review tool for exam prep as well as a handy update for practicing pathologists who want to stay current with the latest advancements in the field Covers all of the major subject areas of clinical pathology tested on the Clinical Pathology board exam including chemistry hematology coagulation microbiology immunology including HLA testing transfusion medicine including therapeutic apheresis cytogenetics and molecular diagnostics Contains multiple choice questions including hundreds of new questions offered in a format that mimics that of the actual test along with brief explanations of why answers are correct or incorrect Includes questions that integrate various areas of clinical pathology as well as questions that bridge concepts in clinical pathology with those in anatomic pathology Shares the knowledge and expertise of new section editors and authors who bring fresh perspectives and features an all new organization and greatly revised content throughout Addresses key topics such as toxicology and therapeutic drug monitoring endocrine pathology and cancer biomarkers Helps you review key concepts in laboratory medicine correlate them to the associated clinical or laboratory information and apply them to the diagnosis and management of human disease Provides online access to all of the questions in the print book along with additional interactive questions

Federation Proceedings Federation of American Societies for Experimental Biology,1973-04      *Scientific and Technical Information Processing* ,1976      Monthly List of Russian Accessions Library of Congress. Processing Department,1965-10      Monthly Index of Russian Accessions ,1962      *Monthly Index of Russian Accessions* Library of Congress. Processing Department,1967      Monthly List of Russian Accessions ,1957      **Chemical Abstracts** ,1911      *Alternative Press Index* ,1996      **The United States Catalog** Mary Burnham,Carol Hurd,1928      Bibliography of Scientific and Industrial Reports ,1963

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