

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, Na_2CO_3
- 0.2M sodium phosphate, Na_3PO_4
- 0.2M sodium sulfate, Na_2SO_4
- 0.2M sodium hydroxide, NaOH
- Transparency paper
- 0.2M lithium chloride, LiCl
- 0.2M copper(II) chloride, CuCl_2
- 0.2M zinc chloride, ZnCl_2
- 0.2M strontium chloride, SrCl_2
- 0.2M barium chloride BaCl_2
- Background paper Template

Safety: You MUST wear goggles during this lab activity

Procedure:

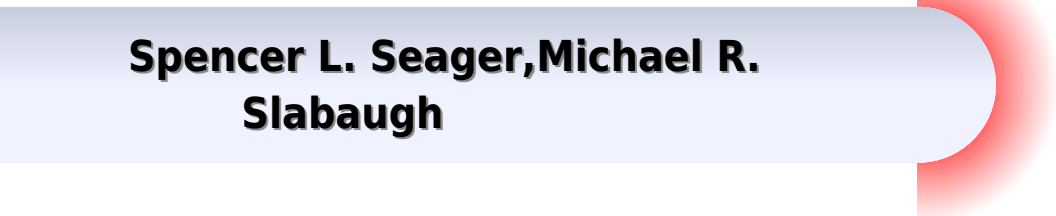
1. Place the overhead sheet over the background paper.
2. Using the Data Table as a guide, mix every possible pair of solutions in a separate square of the background paper. **Use 1 or 2 drops of each solution.** Do NOT contaminate the individual pipets with different solutions.
3. Mix the solutions 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	Na_2CO_3	Na_3PO_4	Na_2SO_4	NaOH
LiCl					
CuCl_2					
ZnCl_2					
SrCl_2					
BaCl_2					

Double Replacement Lab Answers

**Spencer L. Seager, Michael R.
Slabaugh**



Double Replacement Lab Answers:

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Steps to Doing Science Kristin Tuttle Bump, 2008

Prentice Hall Chemistry, 2000

Language, Literacy, and Learning in the STEM Disciplines Alison L. Bailey, Carolyn A. Maher, Louise C. Wilkinson, 2018-02-01 With a focus on what mathematics and science educators need to know about academic language used in the STEM disciplines this book critically synthesizes the current knowledge base on language challenges inherent to learning mathematics and science with particular attention to the unique issues for English learners These key questions are addressed When and how do students develop mastery of the language registers unique to mathematics and to the sciences How do teachers use assessment as evidence of student learning for both accountability and instructional purposes Orienting each chapter with a research review and drawing out important Focus Points chapter authors examine the obstacles to and latest ideas for

improving STEM literacy and discuss implications for future research and practice *Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science* ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction Carolina Science and Math Carolina Biological Supply Company,2003 **Fundamentals of Chemistry in the Laboratory** Ralph A. Burns,1999 **Laboratory Test Handbook with Key Word Index** David S. Jacobs,1988 *Novice Teacher Action* Anne Liu Kern,2007 Improving Student Comprehension of Stoichiometric Concepts Connie Lynn Bannick Kemner,2007 Laboratory Test Handbook with DRG Index ,1984

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Table of Contents Double Replacement Lab Answers

1. Understanding the eBook Double Replacement Lab Answers
 - The Rise of Digital Reading Double Replacement Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Double Replacement Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Double Replacement Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Double Replacement Lab Answers
 - Personalized Recommendations
 - Double Replacement Lab Answers User Reviews and Ratings

- Double Replacement Lab Answers and Bestseller Lists
- 5. Accessing Double Replacement Lab Answers Free and Paid eBooks
 - Double Replacement Lab Answers Public Domain eBooks
 - Double Replacement Lab Answers eBook Subscription Services
 - Double Replacement Lab Answers Budget-Friendly Options
- 6. Navigating Double Replacement Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Double Replacement Lab Answers Compatibility with Devices
 - Double Replacement Lab Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Double Replacement Lab Answers
 - Highlighting and Note-Taking Double Replacement Lab Answers
 - Interactive Elements Double Replacement Lab Answers
- 8. Staying Engaged with Double Replacement Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Double Replacement Lab Answers
- 9. Balancing eBooks and Physical Books Double Replacement Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Double Replacement Lab Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Double Replacement Lab Answers
 - Setting Reading Goals Double Replacement Lab Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Double Replacement Lab Answers
 - Fact-Checking eBook Content of Double Replacement Lab Answers
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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