



## Stoichiometry Challenge

Written by Dolores Dang-Wright and Sharm Kanner, 2010 Workshop Participants

### Teacher Background Information:

This lesson replaces a traditional Aluminum to Alum stoichiometry lab with a greener precipitation reaction of sodium carbonate and calcium chloride. It is used to demonstrate how stoichiometry works, showing that if concentrations and amounts of the starting materials are known that the theoretical yield can be calculated from a balanced chemical equation.

### Safety information:

- Calcium chloride ( $\text{CaCl}_2$ ) and sodium carbonate ( $\text{Na}_2\text{CO}_3$ ) are both skin irritants.
- If either chemical comes in contact with skin wash with soap and water.
- If they come in contact with your eyes spend 15 minutes in the eyewash and call a doctor.

### Educational Goals: Students will understand...

- How to calculate and make molar solutions of  $\text{CaCl}_2$  and  $\text{Na}_2\text{CO}_3$  in order to produce an assigned amount of  $\text{CaCO}_3$ .
- How to research where  $\text{CaCO}_3$  can be found nature.

### Student Objectives: Students will ...

- Synthesize an assigned amount of calcium carbonate.
- Demonstrate the mass-mass relationship in chemical reactions.
- Calculate the percent yield and analyze sources of error.
- Practice lab safety

### Materials: (per lab group -3 students)

- |                                      |                              |
|--------------------------------------|------------------------------|
| • 2.2 g $\text{CaCl}_2$ (s)          | • Funnel rack                |
| • 2.1 g $\text{Na}_2\text{CO}_3$ (s) | • 125-mL Erlenmeyer flask    |
| • 40 mL Distilled water              | • Wax paper or aluminum foil |
| • Three 50-mL or 100-mL beakers      | • Stirring rod               |
| • Filter paper                       | • Spatula                    |
| • Funnel                             | • 2 plastic weigh boats      |
|                                      | • Balance                    |

# Lesson Plan Stoichiometry

**Doctor Chemistry**



## Lesson Plan Stoichiometry:

*Chemistry Lesson Plans, Study Guides, and Lecture Notes* Doctor Chemistry, 2017-08-13 The Ultimate Guide to Learning or Teaching Chemistry This book contains the real lecture notes and slide of a highly effective high school and college Chemistry teacher Teachers Never plan another lesson again Students Ace your upcoming exam This series covers all of the topics of High School Chemistry and General Chemistry including Accuracy and Significant Figures Mixtures Metric System Bonding Atomic Theory Periodic Table VSEPR Ionic and Covalent Bonding Geometric Bonding The Mole and Molar Mass Equation Balancing Thermodynamics Stoichiometry States of Matter Gas Laws and Calculations Reaction Calculations Acids and Bases Limiting Reagents Redox and Electro Chemistry Organic Chemistry Basics **Teaching Science for**

**Understanding** James Joseph Gallagher, 2007 Offers middle and high school science teachers practical advice on how they can teach their students key concepts while building their understanding of the subject through various levels of learning activities *Methodologies and Intelligent Systems for Technology Enhanced Learning* Pierpaolo Vittorini, Rosella Gennari, Tania Di Mascio, Sara Rodríguez, Fernando De la Prieta, Carlos Ramos, Ricardo Azambuja Silveira, 2017-05-30 This book presents the outcomes of the 7th International Conference in Methodologies and Intelligent Systems for Technology Enhanced Learning MIS4TEL 17 hosted by the Polytechnic of Porto Portugal from 21 to 23 June 2017 Expanding on the topics of the previous conferences it provided an open forum for discussing intelligent systems for technology enhanced learning TEL and their roots in novel learning theories empirical methodologies for their design or evaluation stand alone and web based solutions and makerspaces It also fostered entrepreneurship and business startup ideas bringing together researchers and developers from industry education and the academic world to report on the latest scientific research technical advances and methodologies International Perspectives on Teacher Professional Development Susan Rodrigues, 2005 Teacher professional development is subject to reform as a consequence of three often interwoven influences innovation politics and pedagogy For example recent decades have seen learning and teaching take centre stage As technologies have become more accessible and relevant so professional development has had to keep pace in order to provide teachers with an opportunity to develop skills and experiences to deal with this innovation In terms of politics as the prescription of input and the measurement of output are regulated and deregulated by the State so teacher professional development shifts to meet accountability and credibility demands Likewise as our understanding of learning and teaching evolves in terms of knowledge processes dispositions and evaluation subsequent teacher professional development programmes responded to these current or in vogue research findings This new and much needed book describes how teacher professional development in science education from initial teacher education to continuing professional development continues to face and address the various challenges that arise as a consequence of innovation politics or pedagogy

Foundations of American Education Christian P. Wilkens, 2025-02-01 Answers all the questions that students preparing

for a career in education ask Foundations of American Education asks many of the questions new teachers face How should I handle classroom management How will I know if students are learning what they should What should I do in class my first year How can I make things better for students This book addresses major topics covered by introductory level education classes such as the history of US public schools curriculum and assessment classroom management school governance law and more Each chapter includes stories and examples from real teachers and schools and closes with a major US court case about public education A major goal for the volume is to develop a sense for what US public school teachers do now and how we might be able to do better in the years ahead

*Stoichiometric Calculations* Lifeliqe,2019 This lesson plan covers how to calculate moles and volume ratios for balanced chemical equations *Holt Chemistry* Ralph Thomas Myers,2004 Merrill Chemistry Robert C. Smoot,Smoot,Richard G. Smith,Jack Price,1998 **Resources in Education** ,1997-04 Chemistry John S. Phillips,Cheryl Wistrom,2000 **Designing Alternative Assessments for Interdisciplinary Curriculum in Middle and Secondary Schools** Richard E. Maurer,1996 **Voyages : Französisch für Erwachsene. 3, B1 : Lehr- und Arbeitsbuch : Audio-CD** ,2009 **Cleaning and Dyeing World** ,1928 **Mole Ratios** Lifeliqe,2019 This lesson plan relates balanced chemical equations to everyday analogies defines stoichiometry and uses mole ratios to convert between amounts of substances in chemical reactions Big Book of Home Learning Mary Pride,1991-07 Learn at home with exciting products for all school subjects New Computer-assisted Instruction in Chemistry: General approach Harry B. Mark,Hubert C. MacDonald,1974 *Improving Student Comprehension of Stoichiometric Concepts* Connie Lynn Bannick Kemner,2007 The Science Teacher ,2009-10 **Computer-assisted Instruction in Chemistry: General approach** James S. Mattson,Harry B. Mark,Hubert C. MacDonald,1974 **Classroom Connect Newsletter** ,1999

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