

## EXPERIMENT 2 PRE-LAB QUESTIONS (20 points)

### Stoichiometry and Thermochemistry

1. There are three possible unknowns for this experiment. Write balanced chemical equations for the reaction of each of these unknowns with sodium hypochlorite. (3 points)



2. If the stoichiometric ratio of your reaction were 1:1, what volumes of hypochlorite and your unknown would you use to get the highest temperature possible? What if it were 3:1? 4:1? (Hint: Remember the total volume will be 10 mL.) (3 points)

1:1 = 2 moles  $\text{NaOCl} = \frac{1}{2} \text{ mole} = 0.5 \times 10 \text{ ml} = 5 \text{ ml}$   
 $\text{unknown} = \frac{1}{2} \text{ mole} = 0.5 \times 10 \text{ ml} = 5 \text{ ml}$

3:1, total of 4 moles  $\text{NaOCl} = \frac{3}{4} \text{ mole} = \frac{3}{4} \times 10 \text{ ml} = 7.5 \text{ ml}$   
 $\text{unknown} = 2.5 \text{ ml}$

4:1 total moles = 5,  $\text{NaOCl} = \frac{4}{5} \rightarrow 8 \text{ ml}$   
 $\text{unknown} = 2 \text{ ml}$

3. If the stoichiometric ratio of your reaction were 1:1, what volumes would you use to collect four data points on each side of the highest temperature (stoichiometric ratio)? What if it were 3:1? 4:1? (3 points)

10, 20, 30, 40 ml

4. Finally, if you didn't know what the stoichiometric ratio of hypochlorite and your unknown was, what would be your approach? What volumes of hypochlorite and unknown would you start with? What other volumes would you use? How would you know you had enough data? (2 points)

You'd have to try multiple volumes because you don't know what number of moles they are reacting. If you try it with 1, first, you get some product, and if any reactant is left that indicates a mismatch in the number of moles reacting, and then you can try different volumes to check whether the finding is correct.

# Stoichiometry Pre Lab Answers

**Shasha Hu**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

## **Stoichiometry Pre Lab Answers:**

*A Concrete Stoichiometry Unit for High School Chemistry* Jennifer Louise Pakkala, 2006      *Instructor's Guide for Introductory Chemistry in the Laboratory* James F. Hall, 1996      **Laboratory Experiments for General Chemistry** Harold R. Hunt, Toby F. Block, George M. McKelvy, 2002 This established manual focuses on using non hazardous materials to teach the experimental nature of general chemistry Experiments are written to address students of various academic backgrounds and differing interests and abilities in chemistry While most experiments can be conducted in a single three hour period some have been designed to be completed over an extended time to illustrate that chemical systems do not work at an arbitrary schedule Suggestions are provided for combining experiments of shorter length and similar pedagogy      *General Chemistry* B. Richard Siebring, Mary Ellen Schaff, 1980      *Book of Abstracts* American Chemical Society. Meeting, American Chemical Society, 1974      **Three Cognitive Skills in Chemistry and Their Application to Stoichiometry** Ardas Ozsogomonyan, 1977      *Optimizing STEM Education With Advanced ICTs and Simulations* Levin, Ilya, Tsybulsky, Dina, 2017-06-05 The role of technology in educational settings has become increasingly prominent in recent years When utilized effectively these tools provide a higher quality of learning for students *Optimizing STEM Education With Advanced ICTs and Simulations* is an innovative reference source for the latest scholarly research on the integration of digital tools for enhanced STEM based learning environments Highlighting a range of pivotal topics such as mobile games virtual labs and participatory simulations this publication is ideally designed for educators professionals academics and students seeking material on emerging educational technologies      *Improving Student Comprehension in Chemistry Laboratories* Tracy Lynn Haroff, 2006      *Carolina Science and Math* Carolina Biological Supply Company, 2003      ,      **The Molecular Biology of Schizosaccharomyces pombe** Richard Egel, 2013-03-14 The fission yeast *Schizosaccharomyces pombe* is the favoured tool of many productive research groups throughout the world serving as a useful model for fundamental principles and mechanisms such as genome organization differential gene regulation cell cycle control signal transduction or cellular morphogenesis This book collates the current state of knowledge derived from molecular studies in this simple eukaryotic microorganism The entire sequence of its genome has been completed emphasizing the comparative value and model status of this yeast The individual chapters highlighting up to date views on prominent aspects of molecular organization were written by active research scientists presenting the results of their investigations to other workers in neighbouring fields This book intends to serve the fission yeast community as a handy source of reference for years to come It will also be of particular value to the ever increasing number of researchers starting to look into fission yeast affairs for comparative reasons from other platforms of molecular genetics and cell biology      **Innovative Methods of Teaching and Learning Chemistry in Higher Education** Ingo Eilks, Bill Byers, 2009 A unique publication from the ECTN giving a comprehensive overview of innovations in university chemistry teaching from a broad European perspective      **Chemistry Education**

Javier García-Martínez, Elena Serrano-Torregrosa, 2015-05-04 Winner of the CHOICE Outstanding Academic Title 2017 Award  
This comprehensive collection of top level contributions provides a thorough review of the vibrant field of chemistry education. Highly experienced chemistry professors and education experts cover the latest developments in chemistry learning and teaching as well as the pivotal role of chemistry for shaping a more sustainable future. Adopting a practice oriented approach, the current challenges and opportunities posed by chemistry education are critically discussed, highlighting the pitfalls that can occur in teaching chemistry and how to circumvent them. The main topics discussed include best practices, project based education, blended learning and the role of technology including e learning and science visualization. Hands on recommendations on how to optimally implement innovative strategies of teaching chemistry at university and high school levels make this book an essential resource for anybody interested in either teaching or learning chemistry more effectively, from experienced chemistry professors to secondary school teachers, from educators with no formal training in didactics to frustrated chemistry students.

**Micro Experiments** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1998

Solar Energy and Nonfossil Fuel Research, 1979 This directory, the first annual compilation of agriculture related solar energy research, is designed to provide the scientist, technician and inventor, government and industry and farmers and other interested laymen with an overview of the diverse and intense efforts being mounted by our society to find alternate energy sources.

Miscellaneous Publication, 1979

*The Software Encyclopedia*, 1986

*Energy Research Abstracts*, 1980-12

**List of Chemical Compounds Authorized for Use Under USDA Meat, Poultry, Rabbit, and Egg Products Inspection Programs**, **Cumulated Index Medicus**, 1991

## Whispering the Secrets of Language: An Psychological Journey through **Stoichiometry Pre Lab Answers**

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