

# POWERPOINT HAS 30+ PROBLEMS ALONG WITH TYPED ANSWERS AND STEPS

Balancing an equation that contains a polyatomic ion example problem



Step 1: Since there is an unequal number of N and O on both sides, the equation is unbalanced.

**Ex:  $\text{NO}_3^-$  is a polyatomic ion – when balancing keep the  $\text{NO}_3^-$  together as a unit for balancing.**

Step 2: Working from left to right add a "2" in front of  $\text{NaNO}_3$ , then balance  $\text{NO}_3^-$  and a "3" in front of the Al in the products.

Step 3: Recheck – The equation is balanced!



Balancing Organic Combustion reactions example problem



Step 1: Place a 2 in front of  $\text{CO}_2$ , and a 2 in front of  $\text{H}_2\text{O}$ . This gives:



Step 2: Since we had total number of oxygen atoms is present on the product side ( $2 + 2 = 4$ ) oxygen atoms, A "2" must be placed in front of  $\text{C}_2\text{H}_6\text{O}$ , and the coefficient on  $\text{CO}_2$  and  $\text{H}_2\text{O}$  is changed to 3 & 4. This gives:



Step 3: Balance the oxygen with a coefficient of 7/2 in front and multiply.  $2\text{C}_2\text{H}_6\text{O} + 7/2\text{O}_2 \rightarrow 2\text{CO}_2 + 2\text{H}_2\text{O}$

## “TRY IT” PROBLEMS FOR STUDENTS TO DO WITH TYPED ANSWERS AND EXPLANATIONS!

Balancing an equation that contains a polyatomic ion try it problems



Balancing an equation that contains a polyatomic ion try it problems  
**ANSWERS**



## Chemical Reactions Guided Practice Problem 5 Answers

**Antony C. Wilbraham, Dennis D.  
Staley, Michael S. Matta, Edward L.  
Waterman, Prentice-Hall Staff**

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**Study Guide with Selected Solutions** Karen Timberlake,2002-08-06 Written by the author the Study Guide is keyed to the learning goals in the text and designed to promote active learning through a variety of exercises with answers and mastery exams Also contains complete solutions to odd numbered problems

**A Visual Analogy Guide to Chemistry, 2e** Paul A Krieger,2018-02-01 A Visual Analogy Guide to Chemistry is the latest in the innovative and widely used series of books by Paul Krieger This study guide delivers a big picture view of difficult concepts and effective study tools to help students learn and understand the details of general organic and biochemistry topics

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Patrick E. McMahon,Rosemary McMahon,Bohdan Khomtchouk,2019-02-13 This work evolved over thirty combined years of teaching general chemistry to a variety of student demographics The focus is not to recap or review the theoretical concepts well described in the available texts Instead the topics and descriptions in this book make available specific detailed step by step methods and procedures for solving the major types of problems in general chemistry Explanations instructional process sequences solved examples and completely solved practice problems are greatly expanded containing significantly more detail than can usually be devoted to in a comprehensive text Many chapters also provide alternative viewpoints as an aid to understanding

**Key Features** The authors have included every major topic in the first semester of general chemistry and most major topics from the second semester Each is written in a specific and detailed step by step process for problem solving

whether mathematical or conceptual Each topic has greatly expanded examples and solved practice problems containing significantly more detail than found in comprehensive texts Includes a chapter designed to eliminate confusion concerning acid base reactions which often persists through working with acid base equilibrium Many chapters provide alternative viewpoints as an aid to understanding This book addresses a very real need for a large number of incoming freshman in STEM fields

**Study Guide for Chemical Principles** Thomas Elliott Taylor,1979

**Survival Guide to Organic Chemistry**

Patrick E. McMahon,Bohdan B. Khomtchouk,Claes Wahlestedt,2016-12-19 The Survival Guide to Organic Chemistry Bridging the Gap from General Chemistry enables organic chemistry students to bridge the gap between general chemistry and organic chemistry It makes sense of the myriad of in depth concepts of organic chemistry without overwhelming them in the necessary detail often given in a complete organic chemistry text Here the topics covered span the entire standard organic chemistry curriculum The authors describe subjects which require further explanation offer alternate viewpoints for understanding and provide hands on practical problems and solutions to help master the material This text ultimately allows students to apply key ideas from their general chemistry curriculum to key concepts in organic chemistry

**Key Features**

Reviews key general chemistry concepts and techniques adapted for application to important organic principles Provides practical guidance to help students make the notoriously well known and arduous transition from general chemistry to organic chemistry Explains organic concepts and reaction mechanisms generally expanding the focus on how to understand each step from a more intuitive viewpoint Covers concepts that need further explanation as well as those that summarize and emphasize key ideas or skills necessary in this field An added bonus is help with organizing principles to make sense of a wide range of similar reactions and mechanisms Implements a user friendly process to achieve the end result of problem solving Covers organic chemistry I and II concepts at the level and depth of a standard ACS organic chemistry curriculum features practice problems and solutions to help master the material including an extensive and comprehensive bank of practice exams with solutions

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**Chemistry** John S. Phillips,Cheryl Wistrom,2000

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**Addison-Wesley Chemistry** Antony C. Wilbraham,Dennis D. Staley,Michael S. Matta,Edward L.

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