

# LESSON 17: CHEMICAL REACTION TYPES AND PREDICTING PRODUCTS

## GOALS: Learning Objectives

- Classify different chemical reaction types by looking at the reactants and products.
- Predict products of chemical reactions based on reaction types.

## Key Vocabulary

## Types

- Synthesis
- Decomposition
- Single Displacement
- Double Displacement
- Combustion
- Neutralization
- Acids/Base Reactions
- Precipitation
- Redox



## Key Equation

None... for this lesson.



## 17.1 Famous Five - Reaction Types

There are literally millions of different chemical reactions that occur every day throughout our world. Most of them occur without us realizing it. Scientists classify chemical reactions into 5 specific groups. These groups help us determine what products may be produced from certain types of chemical reactions. We will look at synthesis, decomposition, single displacement, double displacement, and organic combustion reactions. Once we finish discussing these reactions, we will analyze some other types of chemical reactions which we can classify.

Synthesis reactions occur when two or more reactants combine to form one new compound. They usually form by the general equation below.



A and B can be used to represent any element or compound. The above equation is just a general equation to show how the reactants become the specified products. Several examples of synthesis reactions are listed below.



### Synthesis Reaction



Reactants

Product

# Study Guide Types Of Reaction

**Pamela Mills,Amina El-Ashmawy**

## **Study Guide Types Of Reaction:**

**The Practice of Chemistry Study Guide & Solutions Manual** Pamela Mills,Amina El-Ashmawy,2003-04-14 Designed to help students understand the material better and avoid common mistakes Also includes solutions and explanations to odd numbered exercises *Student Study Guide/Solutions Manual for Essentials of General, Organic, and Biochemistry* Denise Guinn,Rebecca Brewer,Rachel C. Lum,2009-09-15 The Student Study Guide and Solutions Manual provides students with a combined manual designed to help them avoid common mistakes and understand key concepts After a brief review of each section's critical ideas students are taken through stepped out worked examples try it yourself examples and chapter quizzes all structured to reinforce chapter objectives and build problem solving techniques The solutions manual includes detailed solutions to all odd numbered exercises in the text *Organic Chemistry, 5e Student Study Guide and Solutions Manual* David R. Klein,Laurie S. Starkey,2025-03-18 Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems With Organic Chemistry Student Study Guide and Solutions Manual 5th Edition students can learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry [Solutions Manual and Study Guide to Accompany Introduction to Organic Chemistry, 4th Ed](#) Paul A. Bartlett,Judith G. Koch,1992 **Study Guide and Solutions Manual for Organic Chemistry Digital Update** K. Peter C. Vollhardt,Neil E. Schore,2024-03-25 Written by Organic Chemistry coauthor Neil Schore this invaluable manual includes chapter introductions that highlight new materials chapter outlines detailed comments for each chapter section a glossary and solutions to the end of chapter problems presented in a way that shows students how to reason their way to the answer **Study Guide to Accompany Introduction to Organic Chemistry, 2nd Ed** William Henry Brown,1978 [Study Guide & Solutions Manual to Accompany Organic Chemistry](#) Mary H. Bailey,1998 **Study Guide & Solutions Manual to Accompany Organic Chemistry, Third Edition** G. Marc Loudon,Joseph G. Stowell,1995 **Tintinalli's Emergency Medicine: A Comprehensive Study Guide, 8th edition** Judith E. Tintinalli,J. Stephan Stapczynski,O. John Ma,David M. Cline,Garth D. Meckler,2016-03-22 The most widely used and highly regarded textbook and reference of emergency medicine Endorsed by the American College of Emergency Physicians The 8th edition of Tintinalli's Emergency Medicine provides the depth and breadth of coverage that reflects the complexity and expertise needed to practice emergency medicine successfully in today's fast paced environments It is an important contemporary clinical emergency care resource for physicians NPs and PAs who practice emergency medicine and for emergency medicine and pediatric emergency medicine fellows It remains the preferred study guide for in training and board examinations and recertification NEW to this edition Full color design with more tables than ever to succinctly present key information Extensive updates to all sections incorporating the latest guidelines evidence based protocols and relevant research Expanded pediatric section with complete clinical information for

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