

# CHAPTER 14 STUDY GUIDE

## Mixtures and Solutions

### Section 14.1 Heterogeneous and Homogeneous Mixtures

In your textbook, read about suspensions and colloids.

For each statement below, write *true* or *false*.

- false  1. A solution is a mixture containing particles that settle out of the mixture if left undisturbed.
- true  2. The most abundant substance in a colloid is the dispersion medium.
- false  3. A colloid can be separated by filtration.
- true  4. A solid emulsion consists of a liquid dispersed in a solid.
- true  5. Whipped cream is an example of a foam.
- false  6. In an aerosol, the dispersing medium is a liquid.
- true  7. Brownian motion results from the collisions of particles of the dispersion medium with the dispersed particles.
- true  8. Dispersed particles in a colloid do not tend to settle out because they have polar or charged atomic groups on their surfaces.
- false  9. Stirring an electrolyte into a colloid stabilizes the colloid.
- true  10. Colloids demonstrate the Tyndall effect.

The table below lists the characteristics of particles in colloids, solutions, and suspensions. Place a check in the column of each mixture whose particles have a particular characteristic.

Characteristics of Particles	Colloid	Solution	Suspension
11. Less than 1 nm in diameter		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
12. Between 1 nm and 1000 nm in diameter	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
13. More than 1000 nm in diameter	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
14. Settle out if undisturbed			
15. Pass through standard filter paper	<input checked="" type="checkbox"/>		
16. Lower vapor pressure			<input checked="" type="checkbox"/>
17. Scatter light	<input checked="" type="checkbox"/>		

# Mixture And Solutions Study Guide Key

**Karen Timberlake**



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General Organic and Biological Chemistry 2e *Study Guide and Full Solutions Manual* Susan McMurry, John McMurry, 2002-08 Contains a brief overview of every chapter review of skills self tests and the answers and detailed solutions to all end of chapter problems in the textbook

**Student Study Guide to accompany Chemistry** Martin Silberberg, Libby Weberg, 2005-01-06 *Study Guide and Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry, Third Edition* John McMurry, Susan McMurry, 1999 Provides worked out solutions to text problems along with chapter by chapter outlines and a variety of self tests at the end of each chapter

**Study Guide with Answers to Selected Problems** H. Stephen Stoker, Danny V. White, 2003-04 This supplement includes for each chapter a brief overview activities and practice problems to reinforce skills and a practice test The answers section includes answers for all odd numbered end of chapter exercises

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Study Guide & Solutions Manual to Accompany Organic Chemistry, Third Edition G. Marc Loudon, Joseph G. Stowell, 1995

**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

**Student Solutions Manual and Study Guide to Accompany Understanding Elementary Algebra** Steven Kahan, 1986

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**Algebra** George Grisham,1992 Fundamentals of Organic Chemistry, Textbook, Study Guide and Solutions Manual T. W. Graham Solomons,1996-08-15 A realistic approach to the study of mechanisms The book addresses real functional group chemistry with an emphasis on the biological environmental and medical applications of organic chemistry **Study Guide with Solutions to Accompany Burgoyne, A Study Course in Organic Chemistry** N. Sue Barnes,1979 *Study Guide for Chemical Principles* Thomas Elliott Taylor,1979 **Student Study Guide to accompany Foundations of College Chemistry, 11th Edition** Morris Hein,Susan Arena,2003-09-03 Work more effectively and gauge your progress along the way This Student Study Guide that accompanies Hein s Foundations of College Chemistry 11th Edition contains a review and self evaluation section challenge problems and answers and solutions for all exercises in the study guide Foundations of College Chemistry is the book that defined the prep intro chemistry market 35 years ago And it s been a market leader ever since Hein Arena is known for its accuracy clear no nonsense approach and direct writing style Strong problem solving and carefully constructed problem sets make this book a standout among its many imitators Matter, Building Block of the Universe ,1993 Matter ,1994 1995 2000 State Textbook Adoption Rowan Salisbury

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