

# 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*.

- \_\_\_\_\_ 1. A solution is a mixture containing particles that settle out of the mixture if left undisturbed.
- \_\_\_\_\_ 2. The most abundant substance in a colloid is the dispersion medium.
- \_\_\_\_\_ 3. A colloid can be separated by filtration.
- \_\_\_\_\_ 4. A solid emulsion consists of a liquid dispersed in a solid.
- \_\_\_\_\_ 5. Whipped cream is an example of a foam.
- \_\_\_\_\_ 6. In an aerosol, the dispersing medium is a liquid.
- \_\_\_\_\_ 7. Brownian motion results from the collisions of particles of the dispersion medium with the dispersed particles.
- \_\_\_\_\_ 8. Dispersed particles in a colloid do not tend to settle out because they have polar or charged atomic groups on their surfaces.
- \_\_\_\_\_ 9. Stirring an electrolyte into a colloid stabilizes the colloid.
- \_\_\_\_\_ 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			
12. Between 1 nm and 1000 nm in diameter			
13. More than 1000 nm in diameter			
14. Settle out if undisturbed			
15. Pass through standard filter paper			
16. Lower vapor pressure			
17. Scatter light			

# Mixtures And Solutions Study Guide Mastery Answers

**Thomas Elliott Taylor**



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*Study Guide for Chemical Principles* Thomas Elliott Taylor, 1979      *Organic Chemistry* Ralph J. Fessenden, Joan S. Fessenden, 1982 Provides a set of additional drill problems chapter by chapter discussions and supplemental instructional material to help students master organic chemistry problem solving techniques      *Study guide to accompany Drew H. Wolfe: General, organic and biological chemistry* Daniel C. Pantaleo, 1986      *Delivering Learning on the Net* Martin Weller, 2003-12-16 As online education becomes more familiar so the reality of using it in teaching and learning has moved beyond the realm of the specialist Pedagogy and best practice Delivering Learning on the Net explores the reality of online education today Martin Weller chaired the groundbreaking Open University course You Your computer and the Net which is now the largest for credit online course in Europe Based on this and his experiences elsewhere the book is a comprehensive resource grounded in practical reality as well as in research Key issues covered include the Net and its relation to education developing and implementing online courses the key issues surrounding online education Teachers trainers technologists administrators and decision makers working in higher and further education will all find much of value in this book

*Engineering Mechanics* Benson H. Tongue, Daniel T. Kawano, 2020-09-29 Dynamics can be a major frustration for those students who don't relate to the logic behind the material and this includes many of them Engineering Mechanics Dynamics meets their needs by combining rigor with user friendliness The presentation in this text is very personalized giving students the sense that they are having a one on one discussion with the authors This minimizes the air of mystery that a more austere presentation can engender and aids immensely in the students ability to retain and apply the material The authors do not skimp on rigor but at the same time work tirelessly to make the material accessible and as far as possible fun to learn

**Abstracts of Studies in Education at the Pennsylvania State College** Pennsylvania State College. School of Education,      *The Physical Educator*, 1947      **Prentice Hall Chemistry**, 2000      **Manitoba School Journal**, 1952

**The Modern Language Journal**, 1929 Includes section Reviews      *The Arithmetic Teacher*, 1988      *The Industrial Chemist and Chemical Manufacturer*, 1928      **English Mechanic and World of Science**, 1874      **Experimentation with Human Beings** Jay Katz, Alexander Morgan Capron, Eleanor Swift Glass, 1972-07-24 In recent years increasing concern has been voiced about the nature and extent of human experimentation and its impact on the investigator subject science and society This casebook represents the first attempt to provide comprehensive materials for studying the human experimentation process Through case studies from medicine biology psychology sociology and law as well as evaluative materials from many other disciplines Dr Katz examines the problems raised by human experimentation from the vantage points of each of its major participants investigator subject professions and state He analyzes what kinds of authority should be delegated to these participants in the formulation administration and review of the human experimentation process Alternative proposals from allowing investigators a completely free hand to imposing centralized governmental control are

examined from both theoretical and practical perspectives The conceptual framework of Experimentation with Human Beings is designed to facilitate not only the analysis of such concepts as harm benefit and informed consent but also the exploration of the problems raised by man s quest for knowledge and mastery his willingness to risk human life and his readiness to delegate authority to professionals and rely on their judgment      *Scientific American* ,1917      **The Illustrated Carpenter and Builder** ,1878      *Catalog. Supplement* Food and Nutrition Information and Educational Materials Center (U.S.),1977 Includes bibliography and indexes subject personal author corporate author title and media index      *New Zealand Farmer Weekly* ,1923      Bulletin of the Atomic Scientists ,1970-12 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world      *Primary Plans* ,1912

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