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LESSON PLAN

Grade/Course: CHEMISTRY I 2003340

Grade Level: 12th High School

**A)TEXT BOOK: CHEMISTRY REVISED 5 EDITION STUDENT EDITION 2002C
[Hardcover]ADDISON WESLEYPRENTICE HALL (Author)
ISBN-10: 0130543845 | ISBN-13: 978-0130543844**

Order No.: 1

Code:CHE2003

Class Type:Online

Resources:

Text book
Teacher works CD
Teacher interactive
online
Links
Sky Conference

Length: 1 year

Instructional Supports:

Textbook, Magazines, Journals, Websites
Links, Conference, Comprehensive Reading
Plan, Discovery Channel, Public Television

Area:Science

Credits: 1

Total Numbers of class hours:300 hrs

Type: Mandatory

Standards:

Florida Sunshine State
Standards

Prerequisite:

Students must have successfully passed a
Science class in middle/high school.

B) LESSON PLAN Description:

This one-year course of emphasizes the study of the properties and nature of matter and energy. This course explores the periodic table, chemical bonding and including chemical equations, reaction kinetics, and the processes of reactions. This course offers a solid understanding of the fundamentals concepts of chemistry. Problem solving is presented logically one step at a time.

C) LESSON PLAN Objectives:

1. To develop in all students an appreciation and solutions to all types of Chemistry based interactions and problems.
2. to promote in all students an introduction to the study of Chemistry.
3. to promote the technology tools designed to inspire today's chemistry students.

D) LESSON PLAN Contents

Chapter 1 Introduction to Chemistry (Week: 1-2)

Chapter 2 Matter and Change (Week: 3)

Chapter 3 Scientific Measurement (Week: 4)

Chapter 4 Problem Solving in Chemistry (Week 5)

Chapter 5 Atomic Structure and the Periodic Table (Week: 6)

Chapter 6 Chemical Names and Formulas (Week: 7)

Chapter 7 Chemical Quantities (Week: 8)

Chapter 8 Chemical Reactions (Week: 9)

Chapter 9 Stoichiometry (Week: 10)

Chapter 10 States of Matter (Week: 11)

Chapter 11 Thermochemistry Heat and Chemical Change (Weeks: 12-14)

Chapter 12 The Behavior of Gases (Weeks: 15-16)

Chapter 13 Electrons in Atoms (Weeks: 17-18)

Chapter 14 Chemical Periodicity (Weeks: 19)

Chapter 15 Ionic Bonding and Ionic Compounds (Week:20)

Chapter 16 Covalent Bonding (Week: 21)

Chapter 17 Water and Aqueous Systems (Week: 22)

Chapter 18 Solutions (Week: 23)

Chapter 19 Reaction Rates and Equilibrium (Week:24)

Chapter 20 Acid and Bases (Week: 25)

Chapter 21 Neutralization (Week: 26)

Chapter 22 Oxidation- Reduction Reactions (Week: 27)

Chapter 23 Electrochemistry (Weeks: 28-29)

Chapter 24 The Chemistry of Metals and Nonmetal (Weeks: 20-31)

Chapter 25 Hydrocarbon Compounds (Weeks: 32-33)

Chapter 26 Functional Groups and Organic Reactions (Weeks: 34-36)

Chapter 27 The Chemistry of Life (Weeks: 37-38)

Chapter 28 Nuclear Chemistry (Weeks: 29-40)

F) LESSON PLAN References, Websites, Journals, Magazines and Books

- 1.Chemistry: Concepts and Problems: A Self-Teaching Guide (Wiley Self-Teaching Guides) [Paperback] Clifford C. Houk and Richard Post (Authors)
- 2.Homework Helpers: Chemistry [Paperback] Greg Curran (Author)
- 3.Chemistry [Hardcover] by Steven S. Zumdahl (Author)
- 4.Chemistry, Grades 9 - 12 (The 100+ Series) Paperback – January 15, 1999 by Joan Distasio (Author)

H) Web Reference:

www.acs.org

www.Chemistry.com

www.chemistry24.com

www.sciencespot.net/Pages/kdzchem.html

www.chemtopics.com/links.htm

www.iv.ac.uk/Chemistry/Links/links.html

www.tvmuse.eu/tv-shows/Chemistry_26950

www.chem.ucla.edu/chempointers.html

www.chemtopics.com/wwwchem.htm

www.101science.com/Chemistry.htm

I. Journals:

American Scientist

Science

Scientific American

Chemistry Today

J. Magazines:

Smithsonian magazine, published by the Smithsonian Museum

American Scientist magazine

Discover magazine

K. Organizations

Science Foundation

National Chemistry Association

Association of Chemistry Teachers

Discovery Channel

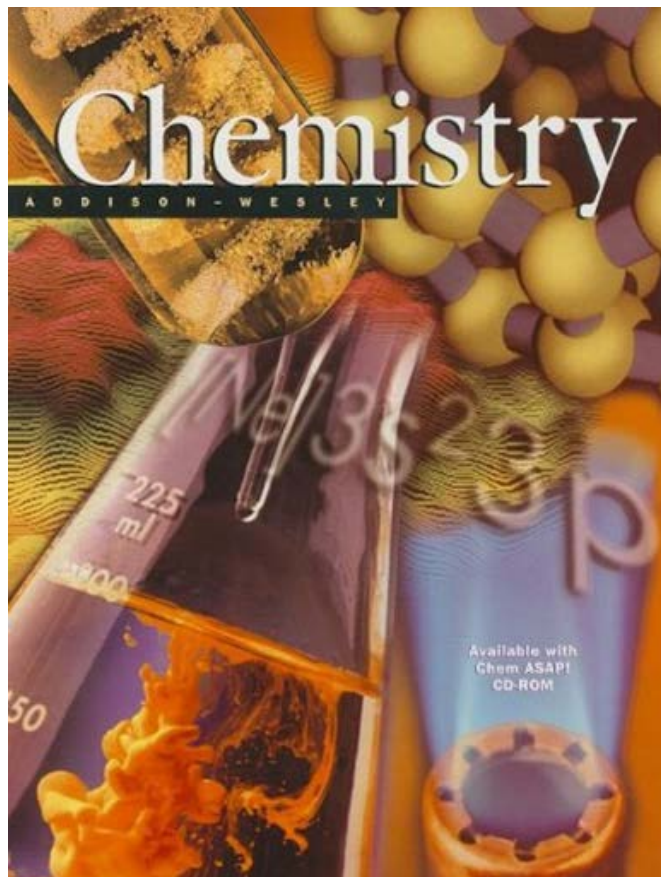
M. Comprehensive Reading Plan

Students are required to read at least 1 book or their equivalent during each class as independent reading at-home. Students must also read for 30 minutes at home as part of their daily homework assignment in all subjects. Check your Class Reading Assignment at www.USICAhs.org/CURRICULUM and check free ebooks at www.openlibrary.org .

Text Book Description

Publication Date: February 1, 2001 | ISBN-10: 0130543845 | ISBN-13: 978-0130543844 |
Edition: 5th. The #1 choice for high school Chemistry.

BOOK:



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