

COURSE OVERVIEW

Science

Course Number: 323

Course Name: Chemistry

Content ID Code: SC

Course Description

This is an introductory survey course designed primarily for the college-bound student. The student may expect to learn the nature of matter: its properties, composition, structure, and changes. The course is both theoretical and mathematical in nature and includes a significant amount of laboratory work. A degree of mathematical ability is assumed and considerable emphasis is placed on problem solving.

Credits:

Course Creation Date:

Local Course #:

Instructional Time

Minutes:

Periods per Cycle

Cycles:

Clock Hours:

Methods of Assessment

- | | | | |
|---|--|---|--|
| <input type="checkbox"/> 3-D Projects | <input type="checkbox"/> Debates | <input type="checkbox"/> Plays | <input type="checkbox"/> Simulations |
| <input type="checkbox"/> Anecdotal Records | <input type="checkbox"/> Demonstrations | <input type="checkbox"/> Portfolios | <input type="checkbox"/> Speeches |
| <input type="checkbox"/> Benchmarks | <input type="checkbox"/> Diary/Journals | <input type="checkbox"/> Presentations | <input type="checkbox"/> Standardized Tests |
| <input type="checkbox"/> Chapter Tests | <input type="checkbox"/> Final Tests | <input type="checkbox"/> Projects | <input type="checkbox"/> Student Self Evaluation |
| <input type="checkbox"/> Checklists | <input type="checkbox"/> Group Work | <input type="checkbox"/> Publisher Tests | <input checked="" type="checkbox"/> Teacher Made Tests |
| <input type="checkbox"/> Class Participation | <input type="checkbox"/> Interviews | <input checked="" type="checkbox"/> Quizzes | <input type="checkbox"/> Visuals |
| <input type="checkbox"/> Computer Products | <input checked="" type="checkbox"/> Laboratory Experiences | <input type="checkbox"/> Research Projects | |
| <input type="checkbox"/> Conferences | <input type="checkbox"/> Observations | <input type="checkbox"/> Role Play | |
| <input type="checkbox"/> Criterion-referenced Tests | <input type="checkbox"/> Performance Tasks | <input type="checkbox"/> Rubrics | |

Possible Adaptations

- | | | | |
|--|--|--|---|
| <input type="checkbox"/> Large Print Books | <input type="checkbox"/> Hands on Activities | <input type="checkbox"/> Peer Tutors | <input checked="" type="checkbox"/> Independent Study |
| <input type="checkbox"/> Audio Taped Tests | <input type="checkbox"/> Individual Aide | <input type="checkbox"/> Word Banks | <input type="checkbox"/> Contracts |
| <input checked="" type="checkbox"/> Extended Time | <input type="checkbox"/> Manipulatives | <input type="checkbox"/> Visual Cues | <input type="checkbox"/> Mentorships |
| <input checked="" type="checkbox"/> Preferential Seating | <input type="checkbox"/> Flash Cards | <input type="checkbox"/> Key Words | <input type="checkbox"/> Telescoping |
| <input type="checkbox"/> Advanced Organizers | <input type="checkbox"/> A Notetaker | <input type="checkbox"/> Acceleration | |
| <input type="checkbox"/> Additional Practice | <input type="checkbox"/> Wait Time | <input checked="" type="checkbox"/> Tiered Assignments | |
| <input type="checkbox"/> Alternate Assessments | <input type="checkbox"/> Computation Aids | <input type="checkbox"/> Expansions | |
| <input type="checkbox"/> Visualize the Auditory | <input type="checkbox"/> Study Guide | <input type="checkbox"/> Learning Centers | |

COURSE OBJECTIVES

Chemistry

Total Objectives: 14

Course Objective #	Course Objective	Month
The student will		
323-001	The student will be able to convert between measurement systems and use those measurements to calculate density and percent error.	
Comprehension		
323-002	The student will be able to identify properties of matter, classify matter, and calculate heat transfer in matter.	
Application		
323-003	The student will be able to apply atomic theory and to calculate moles.	
Comprehension		
323-004	The student will be able to use quantum theory to diagram electron configurations.	
Analysis		
323-005	The student will be able to identify trends associated with the periodic table.	
Comprehension		
323-006	The student will be able to differentiate between different types of chemical bonding, intermolecular forces, and molecular geometries.	
Analysis		
323-007	The student will be able to identify and name chemical compounds.	
Comprehension		
323-008	The student will be able to analyze and perform calculations with chemical formulas.	
Comprehension		
323-009	The student will be able to identify and balance chemical equations and perform stoichiometric calculations.	
Synthesis		
323-010	The student will be able to perform calculations using the appropriate gas law.	
Application		
323-011	The student will be able to differentiate between different types of solutions and between acids and bases.	
Application		
323-012	The student will be able to distinguish between types of radiation and perform nuclear calculations.	
Comprehension		
323-013	The student will be able to classify, draw, and name various organic compounds.	
Comprehension		
323-014	The student will be able to use oxidation-reduction reactions to describe electrochemical cells.	
Comprehension		