Chemistry

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Psalm 107:23–32

TRC Classroom 2
8:55 A.M. – 10:20 A.M.

1 Overview

This is an introductory high school Chemistry class. The Math is about Algebra I level. If you haven't yet finished Algebra I, but are willing to put in the effort, you should be fine. If you are having trouble with any subject matter in the class, you need to ask questions.

Remember: you can "study" History or Geography by reading through the texts, but Chemistry requires you to solve problems out of the book.

2 Module Overview

See calendar (Table 1)

2.1 Module 1: Measurement and Units

Introduction to measurement, units, unit conversion, and significant figures.

2.2 Module 2: Energy, Heat, and Temperature

Introduction to energy and the Law of Conservation of energy.

2.3 Module 3: Atoms and Molecules

Introduction to atoms and molecules, the Law of Conservation of Matter and a deeper dive into Dalton's atomic model.

2.4 Module 4: Classifying Matter and Its Changes

Introduction to physical and chemical changes; beginning chemical reactions and chemical equations.

2.5 Module 5: Counting Molecules and Atoms in Chemical Equations

TBD

2.6 Module 6: Stoichiometry

TBD

2.7 Module 7: Atomic Structure

TBD

2.8 Module 8: Molecular Structure

TBD

2.9 Module 9: Polyatomic Ions and Molecular Geometry

TBD

2.10 Module 10: Acid/Base Chemistry

TBD

2.11 Module 11: The Chemistry of Solutions

TBD

2.12 Module 12: The Gas Phase

TBD

2.13 Module 13: Thermodynamics

TBD

2.14 Module 14: Kinetics

TBD

2.15 Module 15: Chemical Equilibrium

TBD

2.16 Module 16: Reduction/Oxidation Reactions

TBD

Date	Topic
2025-08-22	Module 1: Measurement and Units
2025-08-29	Module 1: Measurement and Units
2025-09-05	Module 2: Energy, Heat, and Temperature
2025-09-12	Module 2: Energy, Heat, and Temperature
2025-09-19	Module 3: Atoms and Molecules
2025-09-26	Module 3: Atoms and Molecules
2025-10-03	Module 4: Classifying Matter and Its Changes
2025-10-10	Module 4: Classifying Matter and Its Changes
2025-10-17	**Fall Break**
2025-10-24	Module 5: Counting Molecules and Atoms in Chemical Equations
2025-10-31	Module 5: Counting Molecules and Atoms in Chemical Equations
2025-11-07	Module 6: Stoichiometry
2025-11-14	Module 6: Stoichiometry
2025-11-21	Module 7: Atomic Structure
2025-12-05	Module 7: Atomic Structure
2025-12-12	Module 8: Molecular Structure
2025-12-19	Module 8: Molecular Structure
2025-12-26	**Winter Break**
2026-01-02	**Winter Break**
2026-01-09	**Winter Break**
2026-01-16	Module 9: Polyatomic Ions and Molecular Geometry
2026-01-23	Module 9: Polyatomic Ions and Molecular Geometry
2026-01-30	Module 10: Acid/Base Chemistry
2026-02-06	Module 10: Acid/Base Chemistry
2026-02-13	Module 11: The Chemistry of Solutions
2026-02-20	Module 11: The Chemistry of Solutions
2026-02-27	Module 12: The Gas Phase
2026-03-06	Module 12: The Gas Phase
2026-03-13	Module 13: Thermodynamics
2026-03-20	**Spring Break**
2026-03-27	Module 13: Thermodynamics
2026-04-03	**Good Friday**
2026-04-10	Module 14: Kinetics
2026-04-17	Module 14: Kinetics
2026-04-24	Module 15: Chemical Equilibrium
2026-05-01	Module 15: Chemical Equilibrium
2026-05-08	Module 16: Reduction/Oxidation Reactions

Table 1: (Tentative) Class Schedule