

Chemistry

Scope and Sequence 2024-2025

Course Description:

In Chemistry, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory, chemical bonding, chemical stoichiometry, gas laws, solution chemistry, acid-base chemistry, thermochemistry, and nuclear chemistry. Students investigate how chemistry is an integral part of our daily lives. • Required prerequisite: Biology and Algebra I

Texas Essential Knowledge and Skills: Chemistry [TEKS](#)

Instructional Units	Days**	Date Range	
First Semester	81	Start Date	End Date
1st Grading Period			
Investigation 1: Matter, Energy, and Change*	14	08/19/24	09/06/24
Investigation 2: Atomic Structure	12	09/09/24	09/24/24
Investigation 3: The Periodic Table	11	09/25/24	10/09/24
Investigation 4: Chemical Bonding	6	10/10/24	10/18/24
2nd Grading Period			
Investigation 4: Chemical Bonding (Continued)	8	10/21/24	10/30/24
Investigation 5: Physical Properties of Substances	15	10/31/24	11/22/24
Investigation 6: Chemical Quantities	10	12/2/24	12/13/24
Review & Final Exams	5	12/16/24	12/20/24
Second Semester	92	Start Date	End Date
3rd Grading Period			
Investigation 7: Chemical Reactions	9	01/07/25	01/17/25
	11	01/21/25	02/04/25
Investigation 9: The Behavior of Gases	11	02/05/25	02/21/25
Investigation 10: Thermochemistry	10	02/24/25	03/07/25
4th Grading Period			
Investigation 11: The Progress of Chemical Reactions	10	03/17/25	03/28/25
Investigation 12: Acid-Base Chemistry	12	03/31/25	04/15/25
Investigation 13: Oxidation- Reduction Reactions	12	04/16/25	05/05/25
Investigation 14: Nuclear Processes	12	05/06/25	05/21/25
Review & Final Exams	5	05/22/25	05/29/25

*Includes time for beginning of the year procedures and safety

**The length of each unit is a specific number of days, but it is understood that there is a range of +/- a day. The purpose of the flexibility is meant to allow teachers the opportunity to plan for the needs of their students and to accommodate re-teaching or review when necessary. If pre-assessment indicates student mastery could be obtained in a fewer number of days, the additional time could be used for extension or carried into the next unit.

Instructional Material(s):

[Experience Chemistry, Savvas Learning Company, ©2025](#)