

CFISD Chemistry Course Scope and Sequence (2026–2027)

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](#)

First Semester (80 Days)

1st Grading Period (Aug. 12 – Oct. 8, 2026)

Unit	Title	Date Range	Days**
Unit 1	SEL & Lab Safety	Aug.12 – Aug. 14, 2026	3
Unit 2	Matter & Energy	Aug. 17 – Aug. 28, 2026	10
Unit 3	Atomic Structure	Aug.31 – Sept 14, 2026	10
Unit 4	The Electron	Sept. 15 – Sept. 29, 2026	10

2nd Grading Period (Oct. 19 – Dec. 18, 2026)

Unit	Title	Date Range	Days**
Unit 5	Periodic Trends	Sept. 30 – Oct. 23, 2026	12
Unit 6	Bonding Properties & Nomenclature	Oct. 26 – Nov. 20 2026	19
Unit 7	IMF's in Properties of Substances	Nov. 30 -Dec. 11, 2026	10
	Finals Exams: Review & Administration	Dec. 14 – Dec. 18, 2026	5

Second Semester (93 Days)

3rd Grading Period (Jan. 5 – Mar. 11, 2027)

Unit	Title	Date Range	Days**
Unit 8	Introduction to Chemical Reactions	Jan. 5 – Jan. 22, 2027	13
Unit 9	Stoichiometry	Jan. 25 – Feb. 12, 2027	15
Unit 10	Gases	Feb. 16 – Mar. 5, 2027	14

4th Grading Period (Mar. 22 – May 27, 2027)

Unit	Title	Date Range	Days**
Unit 11	Thermochemistry	Mar. 8 - Apr. 1, 2027	12
Unit 12	Acid-Base Chemistry	Apr. 2 – Apr. 22, 2027	15
Unit 13	Comparison of Chemical Reactions	Apr. 23 – May 7, 2027	10
Unit 14	Nuclear	May 10 – May 19, 2027	8
	Finals Exams: Review & Administration	May 20 - May 27, 2027	6

**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