

Chemistry Scope and Sequence

[Chemistry TEKS](#)

Course Description

Chemistry is a mathematics based science that relies on the application of knowledge more than the recollection of knowledge. In Chemistry, students conduct laboratory and field investigations, use scientific practices 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 and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermochemistry, and nuclear chemistry. Chemistry is often described as a math intensive course. Students will investigate how chemistry is an integral part of our daily lives. By the end of Grade 12, students are expected to gain sufficient knowledge of the scientific and engineering practices across the disciplines of science to make informed decisions using critical thinking and scientific problem solving.

Scope and Sequence 2024-2025

Semester One	
August 14-December 19, 2024	
<i>First 9 Weeks (40 Days)</i> <i>August 14- October 11, 2024</i>	
Measurement	Process Skills
Periodic Table	5.A, 5.B, 5.C
Atomic Structure/History	6.A, 6.B, 6.D
Light and Electrons	6.C, 6.E
<i>Second 9 Weeks (42 Days)</i> <i>October 14-December 19, 2024</i>	
Light and Electrons	6.C, 6.E
Bonding	7.A, 7.D, 7.C
Nomenclature	7.B
Nuclear Chemistry	14.A, 14.B, 14.C
Review	All previously taught TEKS

Midterm	
Semester Two	
January 8-May 21, 2025	
<i>Third 9 Weeks (40 Days)</i> <i>January 8-March 7, 2025</i>	
Chemical Reactions	9.A, 9.B, 11.D
The Mole	8.A, 8.B
Stoichiometry	8.C, 8.D, 9.C, 9.D
Gas Laws	10.A, 10.B, 10.C
<i>Fourth 9 Weeks (46 Days)</i> <i>March 18-May 21, 2025</i>	
Thermochemistry	13.A, 13.B, 13.C, 13.D
Solutions	11.A, 11.B, 11.C, 11.D
Acids & Bases	11.E, 11.F, 12.A, 12.B, 12.C, 12.D, 12.E
Review Final	All previously taught TEKS

* Note: All other TEKS are taught in conjunction with TEKS listed above.