

Welcome to Open Chemistry Online – Chem 1

Thank you for choosing Open Chemistry Online for your pursuit of chemistry knowledge! My name is Dr. Alex Saltzman and I look forward to walking you through chemistry's unique view of the world.

The course is organized into the following modules, following the corresponding chapters in the [OpenStax Chemistry 2e](#) textbook:

Module 0:	Course Introduction	
Module 1:	Units and Conversions	Ch. 1 (Especially 1.4-1.6)
Module 2:	Atomic Discovery	Ch. 2.1-2.3 (Especially 2.3)
Module 3:	Ions and Molecules	Ch. 2.4-2.6 (Especially 2.6)
Module 4:	Balancing Chemical Reactions	Ch. 3.1, 4.1, 4.3 (Especially 3.1)
Module 5:	Net Ionic Reactions	Ch. 4.2, 4.4 (Especially 4.2)
Module 6:	Gases	Ch. 9.1-9.2
Module 7:	Gas Mixtures	Ch. 9.3
Module 8:	Thermochemistry	Ch. 5.1-5.3
Module 9:	Lewis Structures	Ch. 7.1-7.3 (Especially 7.3)
Module 10:	Molecular Geometry	Ch. 7.6
Module 11:	Intermolecular Forces	Ch. 10.1

The modules within this document should stand well enough alone, but if you are looking to use this resource as comprehensively as possible, here are things to consider for getting the most out of each subject.

- 1) These modules do not necessarily make up a comprehensive Chem 1 course! The intention of this resource is to complement an existing class, provide a refresher for a student, or structure a self-guided program.
- 2) Each module contains an "introduction" file, which holds learning objectives and suggested readings. Begin there if you are looking for a more comprehensive experience. This file also contains captions and attribution information for all figures.
- 3) After completing each video, complete the corresponding 10-question quiz without use of the key, then check your work. If you are getting 8-9 correct, you are well on your way! Consider viewing the video again and retaking the quiz for 100%.

Remember, chemistry is a subject of scientific inquiry – continue to ask questions, find answers in the videos, text, and further literature, and discuss the subject with your peers and experts – and you will find success!



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The creation of this work, "Open Chemistry Online" was supported by Open CU Boulder 2021-2022, a grant funded by the Colorado Department of Higher Education with additional support from the CU Office of the President, CU Office of Academic Affairs, CU Boulder Office of the Provost, and CU Boulder University Libraries.