

Chemistry S1 & S2

Course Information:

1 Credit

Asynchronous Spark Course

Course Site: <https://akgrad.sparkeducation.com/>

Course Description: Chemistry includes the topics of atoms, energy, chemical bonds, chemical reactions, and solutions. Students will develop an understanding of chemical concepts and determine the relevancy of chemistry in their lives.

Course Organization: The course is divided into fifty-three lessons contained in fourteen units. Lessons are mostly text with some links to outside resources. Lessons are followed by a quiz and/or assignment. At the end of each unit is a test covering all the material from that unit.

Materials Required:

- Computer or tablet with Internet access

Academic Dishonesty: With most correspondence courses as well as AKGrad & YKSD, honesty of parents and students is essential. If an AK Grad teacher confirms that a student has plagiarized work or used AI, the student will receive a 0 and be subject to consequences determined by their school of record.

Grading: In this course you will be graded on quizzes, assignments, and post-assessments.

- **Quizzes:** There are 44 quizzes. Quizzes are mostly computer scored and you can see your incorrect answers immediately so you can retake if necessary. The question format is largely multiple choice but can also include fill-in-the-blank, matching, or short answer. It is also permissible to use notes, study materials, and books on the quizzes. You have 2 tries to take each quiz and additional attempts can be given upon request.
- **Tests:** There are 13 tests. The tests are meant to reflect how much you have learned while completing the lessons. The question format is largely multiple choice but can also include fill-in-the-blank, matching, or short answer.
- **Assignments:** There are 18 assignments. The assignments are teacher graded and include written assignments and lab assignments. Writing assignments vary in length from one to three paragraphs. You do not need any special materials to complete the lab assignments. Many of the lab assignments use online simulations or videos. Please let your online teacher know if you have any questions or need any help.

- **Post-Assessment:** The Post-assessment is cumulative. There is a post-assessment at the end of second semester.

The following grading scale will be used for determining your final grade. After completing the course with a "D-" or better you will receive one Carnegie credit from the Yukon Koyukuk School District.

Percent	Grade
97% - 100%	A+
93% - 96%	A
90% - 92%	A-
87% - 89%	B+
83% - 86%	B
80% - 82%	B-
77% - 79%	C+
73% - 76%	C
70% - 72%	C-
67% - 69%	D+
63% - 66%	D
60% - 62%	D-
< 60%	F

Course Schedule: Though you are in charge of your own schedule, we will encourage you to create a schedule for completing the course. As your teacher, I will support you in meeting your goals. A pacing guide is provided in the course. The following is a list of Units that need to be completed.

Semester 1	Semester 2
<ul style="list-style-type: none"> ● Unit 1: Atomic Structure ● Unit 2: Radioactivity 	<ul style="list-style-type: none"> ● Unit 1: Physical and Chemical Properties

<ul style="list-style-type: none">● Unit 3: Origin of Elements● Unit 4: The Periodic Table● Unit 5: Electrons in Atoms● Unit 6: Ionic Compounds● Unit 7: Covalent Compounds	<ul style="list-style-type: none">● Unit 2: Chemical Reactions● Unit 3: Stoichiometry● Unit 4: Reaction Rates and Equilibrium● Unit 5: Solutions● Unit 6: Colligative Properties● Unit 7: Acids and Bases
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Subject to Change

This syllabus and schedule are subject to change in the event of extenuating circumstances. Your instructor will notify you of changes via Spark announcements.