

CHEMISTRY IN THE EARTH SYSTEMS

Instructor Information:

Robert Ly (pronounced "Lee")

robert_ly@chino.k12.ca.us

When you email me, please use your student email and include name and period in the subject line: **Robert Ly, P.4 - grade on Aeries

Course Description:

Chemistry in the Earth Systems entails the understanding of the nature of matter and its transformations when they study atomic and molecular structure, the effects of electron interaction, chemical bonds, and stoichiometry. Additionally, the course offers the study of the properties of gasses, acids and bases, solutions, and organic and inorganic compounds and an exploration of chemical systems through reactions and nuclear processes.

Textbook: Discovery Education, Inc. *Chemistry in the Earth System*. Grades 9-12. 2019.
[eTextbook Link](#)

Required Materials:

- [Scientific Calculator](#)
- Lined paper/notebook
- Pen/Pencil
- Chromebook with charger

Office Hours:

Mr. Ly (S106) - Thursdays 7:45 - 8:20 am

Mr. Cortez (S107) - Thursdays 3:30 - 4 pm

Grading Criteria:

- **Exams (75%):** Regular assessments to evaluate students' understanding of the material
- **Homework (5%):** Regular assignments to reinforce concepts and encourage practice
- **Weekly Check-ins (5%):** ongoing checks to reinforce our learning from prior lessons
- **Labs (15%):** Hands-on experiments to apply what we learned

Grading Scale:

A (89.5 - 100%)

B (79.5 - 89.4%)

C (69.5 - 79.4%)

D (59.5 - 69.4%)

F (50 - 59.4%)

Behavior Expectations:

- Cell phones must remain in backpacks during class
- Students are in their assigned seat when the bell rings
- Students follow all laboratory safety procedures (goggles, proper handling of equipment, close-toed shoes, no food/drinks)
Failure to follow these rules will result in a write-up/removal from the lab activity.
- **Academic dishonesty (cheating/plagiarism) will not be tolerated.** Please see section VII in the [student handbook](#) for specific consequences.

Course Content:**1st Semester**

Unit 0 - Safety Procedures and Lab Equipment

Unit 1 - Heat and Energy in the Earth System

Unit 2 - Atoms and Elements

2nd Semester

Unit 3 - Chemical Bonding

Unit 4 - Chemical Reactions

Unit 5 - Acids, Bases, and Solutions

Note: The course outline is subject to adjustments to optimize the learning experience for students. Additional resources and references may be provided throughout the course to enhance understanding and engagement.

Acknowledgement:

Be sure that you and your parent/guardian read through and sign (no typed signatures - open in Kami and sign with your stylus) this syllabus.

I, _____ (print name), acknowledge that I have read through the contents of this syllabus and understand Mr. Ly's expectations.

Student signature: _____

Date: _____

Parent signature: _____

Date: _____