



## Chemistry (QCS250)

This chemistry course meets the physical science requirement for high school graduation, and one year of the Lab Science requirement for admission to the University of California. The main goal is to practice doing what real scientists do, with particular emphasis on planning and conducting laboratory investigations. This will require that students develop problem solving and critical thinking skills, while working in learning teams. Students will also learn how to use computer simulations, as well as other digital and technological tools, to enhance their studies of chemistry. This course is designed to prepare students for college and career by introducing chemistry concepts important to everyday life. Students should have basic algebra skills, as chemistry requires the application of mathematical logic. They should also have grade-level language skills in order to successfully read science texts and news articles, as well as write explanations and lab reports.

### Mr. Rothschild

Email: michael-rothschild@scusd.edu

Telephone: (916) 395-5090 Ext. 506125, Room B25

Class website: <https://sites.google.com/site/mrrothschildjfk/>

### Textbook

Primary Text: Chemistry, Matters and Change by Dingrando, Tallman, Hainen, and Wistrom (Glencoe/McGraw Hill), copyrighted 2005

### Required Materials:

A 3-ring binder with lined paper, pencil, calculator (scientific recommended)

### Grading Policy

All assignments are worth points and grades will be calculated based on the combined total amount of points earned in each category. Points will be divided into the following categories:

- **Summative Assessments** (40%) Demonstration of content knowledge, intended to assess comprehension
- **Writing Assignments** (35%) Demonstration of analytical skills and ability to communicate ideas through written form
- **Participation & Homework** (15%) Demonstration of engagement within the classroom and responsibilities for completing necessary tasks outside the classroom.
- **Behavior** (10%) Demonstration of ability to conduct oneself appropriately and with respect to peers and teacher

**Turn Over →**

## Topics Investigated

Properties of Matter	Mixtures	Pure Substances
Elements	Nuclear Reactions	Compounds
Ionic Compounds	Covalent Compounds	Chemical Equations
Stoichiometry	Reaction Types	Properties of Reactions
Energy	Reaction Rates	Equilibrium
Gas Laws	Solubility	Chemistry and the Environment

## Academic Expectations

- The most important skill you will take from this class is the ability to think critically, scientifically, and creatively in order to solve problems and answer questions about the world around you
- This science course is designed to give students an academically rigorous, hands-on, inquiry based, and detailed investigation of our Earth.
- Attendance is vital. Should you miss class, it is **your** responsibility to find out what you've missed.
- Students will enter the classroom ready for class. This means removing any hats, hoods and earphones and putting away cell phones and all personal technology.
- As soon as the bell rings, students are expected to be at their desks and waiting silently for the teacher's instructions.

## Behavior Expectations

- Be safe... do not touch experiments without instructions
- Follow all safety rules
- Always stay seated! Raise your hand and get permission to move for any reason
- Be respectful to EVERYONE
- Follow all school rules
- Teacher dismisses the class not the bell
- Remain quiet when others are speaking
- You are responsible for your actions, thoughts and words towards classmates, teachers and yourself
- Be ORGANIZED
- Be proactive...ask for help when you "Don't get it"
- Use Please and Thank You = Manners are still very important

If you choose to break a class or school rule and your instructor makes a request of you, follow directions immediately and without question. Please note: any electronic device **MUST** be handed to the teacher upon request without hesitation or student will be referred to the office for disciplinary reasons.

Most teacher decisions are not negotiable but, if you would like to discuss the issue please do this during down time or after class, NOT when the request is made.

I may agree with you! I realize that sometimes I do not have all of the information. Regardless, do not challenge the request when it is made because that choice WILL result in a more severe consequence.

**Please cut on dotted line and return contract below with both student and parent/guardian signatures.  
Student is to keep the class syllabus in their binder for the entire year.**

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I have read and agree to follow all of the class expectations and guidelines found in Mr. Rothschild's class syllabus.

Student name: \_\_\_\_\_ Student signature: \_\_\_\_\_

Parent/guardian name: \_\_\_\_\_ Parent/guardian signature: \_\_\_\_\_

Home phone: \_\_\_\_\_ Cell phone: \_\_\_\_\_ Email address: \_\_\_\_\_

Preferred method of contact (phone or email): \_\_\_\_\_ Date: \_\_\_\_\_