



Reseda High School Police Academy Magnet

Chemistry A/B

Course Overview

This academic course provides students with an introduction to chemistry and its properties. This comprehensive view gives the students an understanding of the concepts and principles of science, chemistry while integrating *law enforcement themes*. It also, provides opportunities to develop problem solving, and technological skills necessary to compete successfully in the 21st century.

Required Materials

- Modern Chemistry textbook
- Notebook
- Computer to access Internet, Excel, Word and PowerPoint.
- * Additional materials including handouts and articles will be distributed in class.

Units that will be cover during the semester

Unit(s)	Chapters	California Standards	Topics
Atomic & molecular structure	3, 4	1a,1b,1c,1e	<ul style="list-style-type: none"> • Atoms and moles • The periodic table
Chemical bonds	5,6,11	2a, 2b, 2c, 2d, 2e	<ul style="list-style-type: none"> • Ions and Ionic compounds • Covalent compounds • States of matter and Intermolecular forces
Conservation of matter & stoichiometry	3, 7, 9	3a, 3b, 3c,	<ul style="list-style-type: none"> • Atoms and moles • The mole and chemical composition • Stoichiometry • <i>Drug dogs</i>
Conservation (contd) & acid bases	9,15	3d, 3e, 5a, 5b, 5c, 5d	<ul style="list-style-type: none"> • Stoichiometry • Acid and bases
Solutions	2,13	6a, 6b, 6c, 6d	<ul style="list-style-type: none"> • Matter and energy • Solutions
Gases and their properties	2,11,12	4a, 4b, 4c, 4d, 4e, 4f	<ul style="list-style-type: none"> • Matter and energy • States of matter and intermolecular forces • Gases • <i>Bomb squads</i>
Chemical thermodynamics	10	7a, 7b, 7c, 7d	<ul style="list-style-type: none"> • Causes of Change
Reaction rates	16	8a, 8b, 8c	<ul style="list-style-type: none"> • Reaction rates

Nuclear Processes	14, 18, 19, 20	9a, 10a, 10b, 10c, 11a, 11b, 11c, 11d, 11e	<ul style="list-style-type: none"> • Chemical Equilibrium • Nuclear chemistry • Carbon and organic compounds • Biological chemistry • <i>Terrorism</i>
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Class Rules

- Follow instructions the first time given without debate.
- Be polite and respectful to teacher and other classmates at all times.
- Be in your seat and have all class materials available and ready **before** start of the class.
- Stay in your seat at the end of class until the teacher dismisses you.
- Do not bring food, drink, gum, or candy into the classroom.
- Take care of personal business before class or during nutrition/lunch.
- Follow school rules.

Breaking of the rules will result in consequences which involves the student's grade as well as parent conferences.

Make-ups

If student is absent he/she is responsible of obtaining information, assignments from the teacher as soon as he/she shows up to school. He/she will have 24 hours to turn in any missing assignment from the moment he/she shows up to class. Make up exam will occur on the next class meeting.

Assignments

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| <ul style="list-style-type: none"> • Exams • Homework/class work • Notebook • Flashcards • Research reports | <ul style="list-style-type: none"> • Laboratories • Oral Presentations • PowerPoint • S c i e n t i f i c experiments | <ul style="list-style-type: none"> • C r e a t i o n chemistry games, own experiments |
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Grading Scale

Grade	Percent	Indicates
A	90 - 100	Excellent
B	80 - 89	Above average
C	70-79	Average
D	60 - 69	Below average
F	59 or less	Failure

Extra Credit

Special assignments will be given to those students that would like to get extra points. The instructor will announce extra credit assignments; the student needs to ask for the assignment after class.

Reseda High school ESLRS

This class is being presented to the students through project base learning where students have the ability of developing their skills in:

C.F. Urbina, Science teacher (818) 758-3600

Critical thinking
Self esteem
Responsibility
Respect for others

Communication skills
Hands on abilities
Realia

Bring prior knowledge to
the class
Sharing experiences
Cooperative learning

Tear-off

Parent signature

Student signature

Date