

WALNUT GROVE SECONDARY SCHOOL

CHEMISTRY 11

COURSE OUTLINE

BIG IDEAS

Atoms and Molecules

- Atoms and molecules are the fundamental building blocks of matter.
- Chemical bonds are the result of electrostatic forces.
- Periodicity can be explained by atomic structure.

The Mole

- The mole is a convenient way to express quantities of particles

Chemical Reactions

- The rearrangement of atoms in chemical reactions is predictable.
- Matter and energy are conserved in chemical reactions.
- Chemical reactions and their applications have significant implications for human health, society, and the environment.

Solution Chemistry

- Solubility within a solution is determined by the nature of the solute and the solvent.
- Solution chemistry and its applications have significant implications for human health, society, and the environment.

Organic Chemistry

- Carbon's ability to form four bonds, with itself and other elements, results in a wide variety of organic compounds.
- Organic chemistry and its applications have significant implications for human health, society, and the environment.

Curricular Competencies:

Students are expected to be able to do the following:

Questioning and predicting

Planning and conducting

Processing and analyzing data and information

Evaluating

Applying and innovating

Communicating

PROCEDURES FOR ASSESSMENT AND EVALUATION

Students will be assigned a grade based upon their achievement in a wide variety of assignments, quizzes, tests, projects, group assignments, lab write-ups and lab skills. Grading will be cumulative.

Formative Assessment

- assignments, labs, and quizzes

Summative Assessment

- unit tests, exams, and projects

RESOURCES

1. Chemistry 11 IRP: <http://www2.gov.bc.ca/assets/gov/education/kindergarten-to-grade-12/teach/pdfs/curriculum/sciences/2006chem1112.pdf>
2. Chemistry 11 DRAFT curriculum: <https://curriculum.gov.bc.ca/curriculum/10-12>

TEACHER CONTACT INFORMATION

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Office Hours: Main classroom: Room 152
Alternate classroom: Room 142
Before school: 7:30am until class starts
Lunch time: by appointment
After school: until 3:30pm