

Chemistry 11

Welcome to Chemistry 11! Chemistry is the science which deals with the properties and reactions of materials; it is concerned with identification, characterization and transformation of matter and the energy changes accompanying these transformations. Chemical science focuses on the structure and interaction of matter at the atomic and molecular level. This course serves as your introduction to the complexities of chemistry. The material moves from basic chemical safety to an introduction to the limitless world of organic chemistry. Along the way you will learn about chemical classification, how chemists measure their world, the complexities of the chemical reaction and how this can be explained by the intricacies of the atom as well as basic chemical procedure. Through out this study we will look to the creator and sustainer of our wonderful universe with reverence as we begin to understand how awesome his creation is. Psalms 33:9 says "For he spoke, and it came to be; He commanded, and it stood firm"



CHEMISTRY 11 TOPICS

TOPIC
Unit 1: Introduction to Chemistry
a. Lab Safety
b. Measurement & Communication
c. Classification of Atoms, Molecules & Ions
d. Nomenclature of Atoms, molecules, and Ions
Unit 2: The Mole Concept
a. Introduction to the Mole
b. Molar Volume of Gases
c. Percent Composition
d. Molarity
Unit 3: Chemical Reactions
a. Classification of reactions

TOPIC
b. Stoichiometry
Unit 4: Atomic Chemistry
a. Introduction
b. Periodic table
c. Chemical bonding
Unit 5: Solution Chemistry
a. Introduction
b. Conductivity
Unit 6: Organic Chemistry
a. Introduction
b. Hydrocarbons
c. Functional Groups

Note: Topics may not be taught in the order shown

Evaluation

•Your grade will be made up from the following categories and mark breakdown:

Exams	65%	Term 1	40%
Lab Work	20%	Term 2	40%
Quizzes/Projects/Assignments	15%	Final Exam	20%
Total	100%	Total	100%

Important Note.

1. Chemistry 11 is a very intensive course that covers a lot of material, it is easy to fall behind so it is essential that students do home study on top of assigned home work
2. **Be seated and ready to work at the sound of the bell.** If you are late, enter the classroom **quickly and quietly** and take your seat. See the teacher after class to explain yourself. Also note that you will be marked late if you come to class, place your books on your desk, and leave the class on an errand
3. If you are absent from class(es), it is **your** responsibility to obtain any missed notes and assignments **on your own time**
4. All assignments must be completed **on the due date at the start of class.**
5. Students missing a quiz, lab or test **will receive a grade of zero** unless medically or officially excused
6. Excused students must be prepared to make up missed assignments, quizzes or tests **on the first day back** to Chemistry class.
7. Arrangements must be made for students to come into the lab during lunch hour to make up missed lab work
8. **Every lab must be completed by every student.**
9. Extra help occurs outside of regular class time (lunch hours and after school. It is assumed that students experiencing difficulties will seek extra help as soon as the difficulties arise
10. Test corrections may be completed on a **separate piece of paper** for an extra 5% on the test score. It is expected that the student will **explain** what errors were made on the original question in order to obtain the 5%. This grace will extend for **7 calendar days** after the test has been handed back after which the offer of 5% is no longer valid