

*Commitment:* Any student who signs up for this class should understand the commitment it will take to be successful. There will be times where you will need to come in to get help and almost all labs are 55-70 minutes, so you must miss half of your lunch period on lab days.

## GRADING BREAKDOWN

Homework = 10%

Lab reports = 20%

Quizzes = 20%

Tests = 25%

EXAM = 25%



Science  
Science

### Possible Sequences for Science

Grade 9

Biology\*

Grade 10

Chemistry\*

Grades 11-12

Physics\*

Earth & Space Science

Chemistry

Anatomy & Physiology

Astronomy

Forensic Science

Advanced Placement Biology

Advanced Placement Chemistry

Advanced Placement Physics

Advanced Placement Environmental Science

\* Multiple levels available, placement evaluated each year.

Classes listed for grades 11-12 may be taken concurrently or in order based on prerequisites.

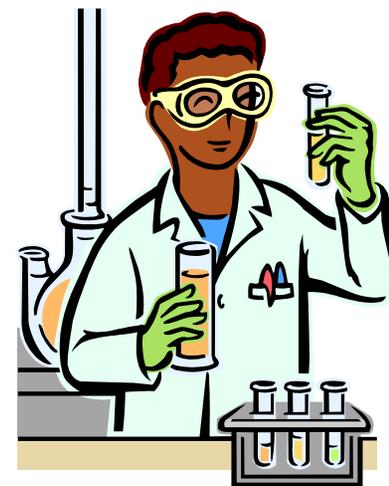
Lake Park High School

AP Chemistry

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# AP CHEMISTRY

*This class is for the student who is interested in careers that incorporate chemistry such as; chemical engineering, medicine, pharmacy, education, etc.*



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## Curriculum

*Topics covered* include everything from the first year of chemistry with an in-depth review of these topics.

### I. Structure of matter (20%)

- A. Atomic theory and atomic structure
- B. Chemical bonding
- C. Nuclear chemistry: nuclear equations, half-lives, and radioactivity; chemical applications.

### II. States of Matter (20%)

- A. Gases
- B. Liquids and solids
- C. Solutions

### III. Reactions (35-40%)

- A. Reaction types
- B. Stoichiometry
- C. Equilibrium
- D. Kinetics
- E. Thermodynamics

### IV. Descriptive Chemistry (10-15%)

### V. Laboratory (5-10%)



## The Course

*To prepare for the class* students should review their sophomore chemistry course and be ready to “hit the ground running”. It will help if they have a sound knowledge of balancing equations and stoichiometry.

*Summer work:* There is no assigned summer work for this course.

*Pace:* This course is a fast-paced course where attendance is a huge contributing factor to success. Units are generally 6-9 days long with a unit test at the end.

*Workload:* This course involves daily quizzes, homework done online using Webassign, lab reports (about 2 per week average), and unit tests (17).

## AP Chemistry Test



The AP Chemistry test is divided into 3 sections.

- Part A is a 75 multiple choice test with NO calculators allowed and is 50% of the total score. The allotted time for Part A is 90 minutes.
- Part B and C are the “show your work” sections and comprise 50% of the total score. These two parts are allowed 90 minutes.
  - Part B is the calculator allowed (3 questions).
  - Part C is No calculator allowed (3 questions).