

Michael E. DeBakey High School for Health professions

Integrated physics and Chemistry

Syllabus 08-09

Mrs. Adam

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SPRING SEMESTER

Cycle 4

+ Properties and classification of matter

This unit focuses on investigation and identification of properties of matter. Students will compare and contrast the three states of matter. Explain the difference between elements, compounds and mixture.

+ Physical and Chemical change

The focus of this unit is for students to investigate and differentiate between physical and chemical changes.

+ Atomic Structure

The focus of this unit is for students to understand the history of atoms and describe the basic parts of atom.

Cycle 5

+ Bonding and periodic table

In this unit, students learn about the periodic table and how the placement of the elements in the periodic table is related to the chemical behavior of an element.

+ Chemical reactions

Students learn in this unit to balance equations for each type of reactions (Synthesis, decomposition, single replacement and double replacement)

Cycle 6

+ Solutions

In this unit, students will describe the structure of water molecules and its ' properties. They will also identify factors that influence the rate of dissolving process.

+ Acids and bases

Students describe in this unit the similarities and differences between acid and bases. They will also investigate the reactions involving acid and bases including neutralization reactions.

+ Nuclear energy

The focus of this unit is on a nuclear reactions such as fission and fusion and applications such as medicine and energy.

Grading system

Exams	50%
Labs/ quizzes	40 %
Home work/ class participation	10%

Material Needed

1. Text book C: Integrated Physics and Chemistry by Glencoe McGraw-Hill
2. Three ring binder
 - a. Notes
 - b. Handouts
 - c. Quizzes/ warm up
 - d. Test and test review
 - e. Class work
3. Home work binder
4. Lab note book (composition)
5. Scientific calculators
6. Graph paper (as needed to be specified)

Classroom rules and norms

1. Always respect yourself and others
2. Be on time, in your seat and ready to work
3. No food or drinks are allowed in laboratory
4. Be productive and participate in class.

Penalties for choosing to break the rule:

- 1st offense: verbal warning
2nd offense: Personal conference with the teacher
3rd offense: Detention, completion of an action plan, telephone call
4th offense: Detention, complete or revise your action plan and parent conference
5th offense: Referral to the principal

Assessment/evaluation

Labs: Laboratory assignments will be used to reinforce abstract concept. Each assignment will be handed out during the class period. Students will work in a cooperative groups. Individuals are expected to read and or write up the procedure of the lab assignment **BEFORE** performing the lab. All Labs must be done properly and safely. Participating in lab activities is a *privilege*, one that can be taken away if the proper procedure is not followed. After completing the Lab, all supplies must be returned and the lab area must be wiped cleaned. The class is not dismissed until the I approve the final inspection

Test: Test is given every 2 weeks or at the end of each unit. Test will be composed of some multiple choice, short answers, calculations and essays. Before, during and after test/quiz, you must silently remain in your assigned seat. If you finish early, you may silently remain and individually work on the other assignment or read. If you do not follow these procedures, you will receive a zero on your test/ quiz and the consequences of DeBakey's "cheating policies" will be immediately enforced. I will **NOT** correct mistakes in grading scantron answer sheet. Please fill in the answers carefully. If necessary, I will provide you with a new scantron answer sheet during the test/quiz, but both the original and new sheet must be handed in together

Make up procedure: if for any reason you do not take a test on the day it was given, then you must make up the test within 3 school days. See the teacher to set up the make up date.

Test and quizzes are given back to the students one or two class period later. They are reviewed in class. Multiple choice tests and quizzes are only reviewed in class and cannot be taken home. Answer sheets and scantrons are kept in the classroom. Students are welcome to further review their test and quizzes after making appointment with me.

Quizzes: This assessment tool is given at the beginning of the class period at the teacher's discretion.

Bonus Points: Bonus credit is a *privilege*, not a *right*. If you have earned the right, through consistent work effort and good behavior, you may be allowed to receive 0-2 points maximum per cycle by doing project on any topic that was covered during the cycle. The Project is graded based on originality and creativity (my discretion) and must be presented to the class one week before the cycle ends. It is your responsibility to initiate extra credit projects.

Home work: Home work credit will be given **ONLY** if the assignment is complete.

Class dismissal:

Make sure the area is picked up and clean! I dismiss the class not the bell.

Tutorial/ Conference: I am available for tutorial either during scheduled tutorials, or at lunch. If at any time you or your parents would like to discuss your progress, please request an individual conference with me by phone(713-741-2410) or email at least one day in advance.