

Science 10 - Course Outline

Instructor:

Textbook: Science 10 Addison Wesley



Unit A: Energy and matter in Chemical Change (Chemistry)

Compounds and the Periodic Table
Naming and Writing Chemical Formulas for Compounds
Chemical Equations for Chemical Reactions

Unit B: Energy Flow in Technological Systems (Physics)

Understanding Energy
Different Forms of Energy
Energy Efficiency

Unit C: Cycling Matter in Living Systems (Biology)

Cell Structure and Function
Cells in Their Environment
Systems in Multicellular Organisms

Unit D: Energy Flow in Global Systems (Physical Sciences)

Environmental monitoring and energy flow {this will be integrated throughout unit B}
Thermal energy and changes of state {this will be integrated throughout unit A}
Climate and biological diversity {this will be integrated throughout unit C}

The major emphasis will be on the chemistry (unit A), physics (unit B) and biology (unit C). Units A, B and C will have equal weightings and each will require approximately six weeks to complete.

Course Evaluation:

Assignments, Labs, Quizzes	25%
Tests: (3 mid-unit tests at 5% each)	15%
(3 unit finals at 10% each)	30%
Final Exam	30%

Goals:

- to help students make informed decisions about further studies and careers in science
- attain the level of scientific awareness essential for citizens of a literate society

Assignment Policy (includes assignments, labs, and exams).

- If student has an excused absence, and misses a quiz, the student is expected to write the quiz on the first day back.
- If the student misses a chapter test, then the student is expected to write the test on the following Thursday after school in the library.
- The student is responsible for all assignments and labs that must be handed in for evaluation. If the assignment has already been handed back they have the option of completing it in front of the teacher at lunchtime. However, if these are not handed in, for whatever reason, excused or unexcused by the end of the unit, a grade of zero will be assigned.

Lab policy:

- Each student is supplied with personal lab safety equipment: eye goggles, gloves and an apron. Students will be required to keep this equipment for 20 and 30 level science courses, so please take good care of it and don't lose it!
- These supplies must be brought to class when you are doing a lab. If you do not have these, you will not be able to do the lab at that time. Students are able to purchase goggles for \$4 and gloves and an apron are \$0.50 each.
- Any broken glassware or lab equipment will be charged to the student at the end of the semester.
- Students are expected to exercise careful laboratory techniques and procedures while performing any experiment. These safety rules and procedures will be discussed prior to the students' first lab.

Classroom Expectations

My number one rule is RESPECT! Respect for others, the teacher, and property

1. Please be on time. If the door is closed that means the class has started. Please knock once quietly and then wait. It is important to be punctual because review is done at the beginning of each class.
2. Bring a water bottle to class.
3. Snacks are allowed. However, if you are disruptive or make a mess, you will lose your privilege.
4. Bathroom breaks. Please try to go when there are breaks in the lesson, this is to ensure you don't miss any pertinent information.
5. Phones should never be used during class. If a phone is being used, it will be taken until the end of the class and if it is a reoccurring issue the phone will be taken until the end of the day.
6. Ipods. Do not have your ipod out during lecture time, this includes headphones. If we are working silently, you may ask to use it.
7. Please raise your hand if you have a question
8. Talking. When someone else is talking, you should not be. This goes for the teacher and your classmates. You will always have an opportunity to speak.
9. If you are going to be away or late on a particular day, let me know in advance.
10. Do your homework. The more practice you get, the better understanding you will have of the material. Daily review is essential.
11. I have an open door policy. If you ever have any questions or concerns please come see me. My office is the PE office, located across from the gym. This is where I will be when I am not in class.

Students are expected to interact with each other, support and encourage academic achievement, orally explain and elaborate upon concepts being learned, and be accountable for their learning.

A set of notes are available online