

Access to Chemistry
Ms. Helton
chelton@temima.org
Temima High School 2011-2012 (5771-5772)

Introduction: Welcome to Conceptual Chemistry! Science is a systematic way of thinking, not just a class, and in this course, we will examine chemistry prevalent in our daily lives. This course is designed to be an experimental and hands-on approach to applied chemistry. Cooking may be the oldest and most widespread application of chemistry, and recipes may be the oldest practical result of chemical research. We will learn how to apply scientific problem solving to everyday kitchen chemistry through our lectures, experiments, and activities.

Materials: A 3-ring binder
Note taking paper
Writing utensils, both pens and pencils
Tissues!

Textbooks: By the nature of this course, we will not have an assigned textbook. We will use many different sources of instruction to supplement our learning. Different supplements will include hand outs, videos, and activities.

A lab manual will be purchased for each student. The lab manual fee is \$4.00 and will be expected to be turned into the office by Sept 2. The lab manual should be returned at the end of the year. The cost of replacement is \$8.00.

Grading Rubric:

Homework and Class work 20%
Daily assignments that will be announced and/or posted

Class Participation 20%
Will be marked daily

Quizzes 10%
Will be announced or unannounced and graded for correctness

Lab Write-ups 20%
Will follow ALL lab experiments and will be graded on correctness and completeness

Tests and Projects 30%
Announced in advance and graded on correctness and completeness

Midterm and Final Exams will be 2 test grades each
Extra credit is given as bonus questions on the tests.

Grade expectations are as follows:

An *A* means that the student has completed proficient work on all course objectives and advanced work on most of the objectives.

A *B* means the student has completed only proficient work on all course objectives.

A *C* means the student has completed proficient work on the most important objectives, although not on all objectives.

A *D* means the student has completed proficient work on at least one-half of the course objectives but is missing some important objectives and is at significant risk of failing the next course in the sequence.

An *F* means the student has completed proficient work on less than one-half of the course objectives and cannot successfully complete the next course in the sequence.

Procedures:

- In this class, we will follow all policies in the student handbook.
- When the tardy bell rings, we will be seated, with a writing utensil, paper, and textbook out ready for the instructions of the day.
- Class will be dismissed by the teacher, with ample time to copy homework in the Yoman and tidy up each person's area before leaving class.
- We will show respect to anyone who is speaking by not talking and raising our hands when we would like to speak.
- We will come to class prepared and will remain in class once the tardy bell has rung.
- We will adhere to the one bathroom pass per day policy for our class and respect our fellow students by not taking advantage of it.
- We will communicate with Ms. Helton through the correct channels and contact her for additional tutoring.
- Anyone not respecting the class procedures will earn a demerit.
- Anyone tardy to class will be reported. Three tardies will equal one demerit. Absences will be handled as per the student handbook.

Instructional Objectives:

- Observe and discuss science as a body of knowledge and investigative process
- Use our new investigative process to analyze the nature of matter and its classifications
- Interpret everyday domestic actions as deeper chemical processes and theories
- Employ oral and written communication skills to explain the chemical nature of atoms

Course Curriculum Suggested Time Frame:

Semester 1

Unit 1	Applied Chemistry	August
Unit 2	States of Matter	September
Unit 3	Atomic Theory	September
Unit 4	Chemical Bonding	October
Unit 5	Water	November
Unit 6	Acids, Bases, and Solutions	November
Unit 7	Molecules of Life	December
Unit 8	Lipids	December
Unit 9	Microwave cooking	January

Semester 2

Unit 10	Methods in Food Processing	February
Unit 11	Food Preservation	February
Unit 12	Vegetables	March
Unit 13	Bread and Baking	March
Unit 14	Meat and Proteins	April
Unit 15	Cooking with Eggs	May
Unit 16	Nutrition, Energy, and Digestion	May & June

Parent/Guardian Signature (Please, no initials)

Student Signature _____

Chemistry in the News-

- Find a newspaper, magazine, or internet article on some aspect of chemistry
- Write a 1 paragraph (at least 5 sentences) summary of the article that includes the following information: Who, What, Where, Why, and Relation to Chemistry
- Cite the source of your article
- Attach it to the paragraph to be handed in

Rubric:

1pt appropriate article

1pt title and name

1pt length of paragraph

1pt who

1pt what

1pt where

1pt why

1pt relation to chemistry

1pt cited sources

1pt on time

10pts Total