

(Deliver to Steve F.)

David Haug
Summer Session 97
Week 1

Monday

Chemistry

Introduction and Expectations
Writing scientific notation
Using a scientific calculator
Multiplication and division of scientific notation

Homework: More Multiplication and division of scientific notation

Objectives:

Students will
Write numbers into and out of scientific notation
Demonstrate the use of scientific notation in a calculator
Perform multiplication and division of scientific notation problems

Tuesday

Chemistry

Lab Safety
Observation Lab

Homework: Chapter 1 questions

Objectives:

Students will
Demonstrate and describe proper laboratory safety and procedures

Wednesday

Chemistry

Review Questions Chapter 1

Objectives:

Students will
Answer questions from the book reviewing information for the test.

Thursday

Chemistry

Exam: Scientific Notation, Lab Safety, Scientific Method, Chemistry

Objectives:

Students will

Obtain an 80% or better on the exam

Week 2

Monday

Chemistry

Density Lab

Homework: mass percent problems

Objectives:

Students will

Define density

Solve for the density of solids and liquids

Use proper laboratory procedures

Tuesday

Chemistry

Same as Monday

Homework: Density questions pg. 57

Objectives:

Students will

Same as Monday

Wednesday

Chemistry

Data collection: Ice to Steam Graph

Test Review

Objectives:

Students will

Collect data as a solid is change a liquid. Temperature Vs. Time

Thursday

Chemistry

Exam 2 Density

Objectives:

Students will

Obtain an 80% or better on the exam

Week 3

Monday

Chemistry

Notes: Chemical and Physical Properties and Changes

Lab: Comparing Chemical and Physical Change

Objectives:

Students will

Define and describe chemical and physical properties

Define, describe and identify chemical and physical change

Tuesday

Chemistry

Heat Problems

Homework: Chapter 3 (heat) questions

Objectives:

Students will

Use the Formula ($Q = s \times m \times \text{change in } T$)

Identify Calories and Joules

Calculate Specific Heat

Solve a punnet square for a monohybrid cross to the F2 generation

Wednesday

Chemistry

Labs: Heat of fusion of ice

Objectives:

Determine the heat of fusion of ice

Thursday

Chemistry

Heat of crystallization of wax

Objectives:

Determine the heat of crystallization of wax

Friday

Chemistry

Test: Heat

Objectives:

Students will

Obtain an 80% or better on the exam

Week 4

Monday

Chemistry

Atomic numbers, symbols, and mass

Homework: Finish worksheets

Objectives:

Students will

Using the periodic table be able to identify the atomic number, mass and symbol of any element.

Tuesday

Chemistry

Chemical compounds and names (Type I and Type II)

Objectives:

Students will

Name compounds containing a metal and a non-metal

Wednesday

Chemistry

Chemical compounds (Type III, Type IV, and Type V)

Objectives:

Students will

name compounds containing polyatomic ions, non-metals, and acids

Thursday

Chemistry

Exam: Elements and Nomenclature

Objectives:

Students will

Obtain an 80% or better on the exam

Week 5

Monday

Chemistry

Gas collection Lab

Objectives:

Students will

Identify chemical and physical properties of 3 gases

Collect gas using a pneumatic trough

Tuesday

Chemistry

Types of chemical reactions Lab.

Balancing chemical equations

Objectives:

Students will

Describe and identify the chemical reactions for synthesis, decomposition, single replacement and double replacement reactions.

Properly balance chemical equations

Wednesday

Chemistry

Reduction of CuO lab

Activity of metals

Objectives:

Students will

Extract copper through a single replacement reaction
Rank metals in their order of activity by evaluating the results
of single replacement reactions

Week 6

Monday

Chemistry

Chemistry of combustion
Mix Chemicals for Precipitation lab

Objectives:

Students will
Describe the products of a combustion reaction
Demonstrate proper laboratory technique

Tuesday

Chemistry

Precipitation reactions

Objectives:

Students will
Define precipitation
identify patterns in precipitation reactions
use the solubility rules to solve problems

Wednesday

Chemistry

Acid Base Titration
Percent water in CuSO_4

Objectives:

Students will
Define an acid and a base
Demonstrate the proper use of pH paper
Complete a acid base titration
Determine the percent water in cupric sulfate

Thursday

Chemistry

Final Comprehensive

Objectives:

Students will

Achieve 80% or better on the exam

Good Luck with the summer, If you have any questions please feel free to call me, Dave.