***Chemistry Activity Log***

**1st Quarter**

M/T August 15/16

Introductions

Class Rules

Safety Rules

Homework: Have class rules signed and brought back- Due W.

Bell Ringer: Why are we here? In general and why do you think you have to take this class? Discuss with Table groups at start of class.

*Standards and Essential Questions for Unit I(Chapters 1 and 3)*

*NoS.1, NoS.3, NoS.4. NoS.6*

*Can students develop explanations based on reproducible data and observations and communicate their ideas both verbally and in written form? Can students evaluate the work of their peers and use mathematical analogies to simplify and convert their experience to recognize the limitations of those analogies and models?*

W August 17

Collect Rules Sheet

Chem Diagnostic Test

R/F August 18/19

Why are we here? Discussion

Chemistry Introduction/Scientific Method notes

Oreo Lab

Homework: Read Ch. 1 in book; do problems 1-33 in Chapter 1- Due M/T

Bell Ringer: Which is better Pure or Applied Science?

M/T August 22/23

Check Ch. 1 Review

Scientific Measurement Notes

Homework: Eng- Met worksheet DueW

Bell Ringer: Why do we need units?

W August 24

Check Ch. 3 Review

Sig Figs/Conversion Notes

Homework: Homework: conversion worksheet 3.3 practice problem side odds 1-23 and 2.3 1-13, 2.4 (1-4 only) Due R/F

Bell Ringer: Should the U.S. convert to the Metric System like the rest of the world?

R/F August 25/26

Safety Quiz

Conversion Practice

Homework: Do measurement test (odds only)Non SI side odds only and finish Ch 3 Prac problems, odds only due M/T

Bell Ringer: Tell me why it is important for scientists to understand uncertainty.

M/T August 29/30

Sig Fig Quiz

Uncertainty Lab

Conversion Group Board Work

Homework: Finish (evens) Non-Si worksheet due W

W August 31

Conversion Quiz

Sig Fig and Multiple Conversion Review

Homework: study for test!

R/F September 1/2

Unit 1 Test

*Standards and Essential Questions for Unit 2 (Chapter 2)*

*C1.1, C1.2, C1.3, C1.4, C1.5, C1.7*

*Can students: Differentiate between pure substances and mixtures; designate extensive and intensive while describing chemical and physical properties and changes; recognize indicators of chemical change; describe characteristics of states of matter and define density and perform calculations involving density?*

T/W September 6/7

Go over test

Mindtrap

Matter and Properties intro notes.

States of Matter Notes

Homework: property worksheet both sides due R/F.

Bell Ringer: Describe five characteristics of a person in the room, be nice! See if I can identify them based on your descriptions.

R/F September 8/9

Density Notes

Candle Lab

Homework: density worksheets due M/T

Bell Ringer: Why does ice float? How much of it is above the water and why is this important to history?

M/T September 12/13

Property Lab

Matter Notes

Homework: Read Ch. 2 do questions 1-38 and Chapter 4 practice problems 6-16 due W

Bell Ringer: Why should you not use water to put out a gas fire?

W September 14

Finish Property Lab

Start Density Lab

Homework: Matter worksheets due R/F

R/F September 15/16

Density Quiz

Property Quiz

Finish Labs

Bell Ringer: How does a municipal water treatment plant clean the water for you to drink?

Bell Ringer: How does a municipal water treatment plant clean the water for you to drink?

M/T September 19/20

Foul Water Lab

Homework: Ch. 2 Review 50-86 Evens only, due W

W September 21

Mixtures Quiz

Review for Test

R/F September 22/23

Unit II Test

Bell Ringer: What makes up an atom?

*Standards and Essential Questions for Unit III(Ch. 4 and 25)*

*NoS.7,C2.1, C2.2,C2.3, C2.4, C2.7, C2.8*

*Can students: Describe varying models of atomic structure; describe subatomic particles and how they contribute to the structure of the atom; Determine the number of protons, neutrons and electrons and relate these to isotopes, atomic number and mass number and calculate relative abundance; compare and contrast nuclear reactions with chemical reactions differentiating between fission and fusion reactions; calculate half –lives of a radioactive sample?*

M/T September 26/27

Atoms and Ions notes

Homework: Atom Drawings 1-20 and 31-38 due Wednesday

Mindtrap

Bell Ringer: How do you calculate your grade in my class?

W September 28

Isotope notes and work

Homework: Exploring Atoms Packet- due R/F

Bell Ringer: What is radioactive material?

R/F September 29/30

Collect Atom Packet

Nuclear Intro notes

Bean Lab

Homework: Nuclear Reactions Packet p. 2 and 3 only- due M/T

Bell Ringer: How do we use nuclear reactions in our everyday life?

M/T October 3/4

Half Life review and work

Fission vs. Fusion notes

Nuclear Reactions Work

Homework: Radioactivity Packet p 1-11- due end of period R/F

W October 5

Radioactivity Review

M and M lab

R/F October 6/7

Nuclear Work

Atom Quiz

Homework: Ch 4 35-71, ch 25 34-71 all due W Oct 12

M/T October10/11

Nuclear Review

Nuclear Quiz

W October 12

Atom Game

R/F October 13/14

Unit III Test Atomic Structure