

Chemistry

Miss Oliver



Objectives

Upon completion of the study of the material, the student will be able to:

- Recognize God as Creator and understand the commands to love one another and to have dominion as related to chemistry.
- Use observation of the properties of matter to predict its structure and changes to its structure
- Explain how the number and arrangement of atoms can be used to predict when an atom will transfer/share electrons to form a bond and explain how the resulting materials are different from the original
- Illustrate that substances can be represented by formulas; write these formulas; name compounds; calculate molecular weight; balance equations
- Predict the interactions among particles involving a change in energy system (exothermic, endothermic, specific heat)
- Understand and apply the gas laws to solve problems and balance equations
- Know and apply the laws concerning quantum numbers

Supply List

- Standard loose leaf paper used in a binder with dividers for HW, tests and quizzes, and lab experiments
- #2 pencils (no mechanical pencils), sharpened
- black or blue pens
- 2 red pens
- Set of 12 or more colored pencils - sharpened
- Ti-83, Ti-83 Plus, or Ti-84 graphing calculator

Classroom Rules

- Students must sit in assigned seats and be seated, ready to work, when the bell rings.
- Students are in class to learn and thus must sit up, pay attention and participate, and cooperate at all times.
- Students will show respect to everyone and everything, avoiding inappropriate classroom behavior, allowing all to benefit from instruction.
- Special note regarding labs: *During the frequent lab activities, it is paramount that the students closely follow directions. Any failure to do so or inappropriate behavior will not be tolerated. The safety necessary to participate in laboratory activities requires that all students adhere to the directions given.*

Grading Policies

- Tests – 40 %; Quizzes - 30%; HW/ Class work / participation – 30%
- All HW is due at the beginning of the class. Any late work will receive 80% of grade earned, and must be turned in at least one week before grades are due.