

Guidelines for Chem Survey/Chem Fund

Welcome to Chem Survey!

Please read the following guidelines carefully and ask if you have any questions.

I. General Guidelines for Our Class:

1. **RESPECT.** Treat everyone like you want to be treated. Property (including laboratory equipment) should also be treated respectfully. You are financially responsible for lab and classroom equipment.
2. **RESPONSIBILITY.** You choose your behavior and you earn your grade. Remember every action/choice has a consequence. In terms of technology use, I expect you to be a good digital citizen. This means that you do **NOT** have your cell phone on or out during class. Do not have headphones in while I'm teaching. You need to come to class with your chromebook charged on a daily basis. In addition, stay on task with the use of your chromebooks and other technology in class.
3. **ATTENDANCE.** We have a lot to learn about science in a short amount of time. So, you are expected to be seated and ready to participate when the bell rings. Tardiness to class is disruptive to your teacher and classmates. Should you be late to class, enter as quietly as possible so as not to disrupt others, and please speak to me after class. ** Be careful during the 5 minute break between the double period. Since the 37-minute period on the extended day is at the beginning of the class period, there should not be tardiness issues.

Absences: Everyday of class is important. It is important that you attend and participate.

* When you return to class:

- a. look at your class calendar to find out what you missed & check the absentee folder
- b. talk to your lab partner to discuss lab work, assignments, notes, etc.
- c. **talk to me for lab make-up. You are responsible for preparing for the lab (pre-lab) and labs should be made up within one week of returning. If you do not arrive on time or if you are not prepared, you may forfeit your lab make-up opportunity.**
- d. check with me to set up due dates for any missing assignments
- e. turn in any assignments that were due the day you were absent

* If you are absent only on the day of a test or quiz, you responsible for taking the test or quiz on the day you return. Make-up tests/quizzes are taken outside of G-215/other arrangement or in the Testing Center. Please have your ID.

* An Unauthorized Absence is a great concern. You are still responsible for all work.

4. **PREPARATION** allows us to get the most out of class. Please don't expect to go to your locker.
 - ◆ The textbook for this class is electronic edition from Discovery Education.
 - ◆ Each day you should bring: Chem Survey Laboratory Manual- this has our course targets, the laminated "Chemistry Helper" periodic table, charged chromebook, # 2 pencil, blue or black pen, a scientific calculator, USB drive, a notebook or notebook paper for class notes, and a method for organizing handouts. **A three-ring binder for organizing handouts is not required, but is HIGHLY recommended.**

5. **APPROPRIATE LANGUAGE and COMMENTS.** We want to maintain an environment for learning and expressing ideas and opinions appropriately. This includes being positive.

6. **ACADEMIC HONESTY** is expected. I believe that working with other students, in class and out, provides many benefits and I realize that studying together is an excellent learning tool when used properly. Be sure, when working with others, that you really are helping each other to understand the material. It is NOT all right to copy each other's answers and students who are found doing this will receive a zero for the assignment. This is also true of lab reports, even though you usually will be working in partners. Your data section should be identical, and you may work together to analyze the laboratory results, but your write up should be your own. In the case of any labs being turned in with identical or nearly identical work, all participants will receive zeros.

7. **ASK** if you need help. I am available to help you. Please schedule an appointment.

8. **SAFETY** in class and lab. Please see the **Laboratory Safety Contract**.

II. Grades- will be posted online at mid-quarter and end of quarter and updates throughout.

Course targets are in your lab manual. Your grade will be based on a percentage of the following:

1. Tests (46%) and Quizzes (22 %)- for many, you will have resources- example problems may NOT be on resources. If unapproved information is on resources, the result may be a grade deduction.

- All tests will be announced in advance. There will generally be a "review day" before the test and time to go over the test.
- If after showing substantial effort, you do not feel that your test score represents your understanding of the concepts tested, please come talk to me. We will discuss possible options that would allow you to show you understanding.
- Quizzes may or may not be announced
- You are responsible for all of the material covered in class and in homework

2. Experiments (18%), activities, homework (14%)

- All assignments will be clearly defined and will usually be written on a provided calendar.
- Laboratory work is very important in this class. Most labs will require a lab report. The lab report format and hints on conclusions/error analysis are in your Laboratory Manual.
- For most labs, you will be working in partners. Sometimes you will be able to choose partners and sometimes you will be randomly paired.
- You are responsible for turning in assignments on time. Late assignments' scores will be reduced. For students working with Learning Strategies teachers or case managers, accommodations can be made.

3. When a student participates in class (or comes in during non-class time), either by asking questions, helping a classmate, answering a question or sharing a thought, this participation gives me additional information about what the student knows and understands. Therefore, I may use this information to justify moving a border student to the higher grade. I follow the grading scale used in the Student Handbook. I do not curve your grades.

IV. General Philosophy

The Chem Survey course explores many exciting and interesting topics. Expect to work hard and challenge yourself, but also expect to feel a sense of accomplishment. In order to accomplish learning as much as possible, it is important for each of us to treat others with respect. This includes respecting the diversity of our class, as well as the insights, work, and questions of each person. I am excited about working with you and am sure that we can build and maintain an environment where learning, discovery, and fun will take place. Remember that I am available for help and want you to succeed. **Your effort is important to your success!!! I look forward to a great year ☺**

Process Targets All Science

Problem Solving

I can recognize multiple ways to solve a problem.

I can judge which problem solving method will be more effective.

I can identify flaws in the scientific method.

Experimental Design

I can design an experiment that will provide data to solve a problem.

I can isolate one variable in a complex system and manipulate that variable.

I can identify controls in a complex systems experiment.

I can identify constants in an experiment.

Gathering Data

I can organize a variety of data.

I can choose the most concise and effective means of representing data.

I can balance trusting data with questioning data that does not make sense.

I can adapt to using a wide variety of observation and measurement tools.

I can identify and follow the necessary safety precautions to complete a lab.

I can set up and use a variety of Lab Pro probes to collect data.

Interpretation of Data

I can create and use a graph with multiple trend lines.

I can extrapolate future trends from my data.

I can isolate descriptions of data from inferences of that data.

Communicate Results

I can use quantitative and qualitative means to support conclusions drawn from data.

I can share results of my experiment concisely through a variety of means to appropriate audiences.

Real World Applications

I can recognize the connection of scientific concepts to current events and trends in daily life.

I can connect distinct aspects of what I am learning to complex global scientific issues.

Prime Chemistry Content Targets

- I can express a chemical or nuclear reaction in words or by writing a balanced equation.
- I can visualize matter using pictures and words.
 - compounds, elements, mixtures, solids, liquids, gases
- I understand the differences between a chemical change and a physical change and I can recognize them.
- I can predict amounts used or made in a chemical reaction.
- I can explain the differences between elements in terms of atomic structure.
- I can predict shape and chemical properties of a substance by drawing molecular structures.
- I can describe the behavior of gases in words, pictures, and equations.
- I can describe the nature of a solution using words, pictures, and equations.
- I can predict the products of chemical reactions.
- I understand the structure of the Periodic table and can use it to find information.
- I understand the concept of the mole and can apply its use in calculations.