

LCHS Chemistry 2021/2022

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Welcome to the world of Chemistry! While last year was more than unusual, we are looking forward to the 2021/2022 school year. Most importantly, we look forward to having each of you in the physical classroom this year.

While Chemistry is a rigorous course, we are confident that you are ready to put out the effort to be successful. Our job is to provide you with the instruction, resources, activities, and assistance needed to be successful.

If you need to reach us by phone during the school day, please call the school (903-2260) & leave a message. Our school email addresses are at the top of the page. During the school day, we will check our school emails periodically. Emails received after 3:45 pm may not be answered until the next day.

Please read the syllabus & then **complete the form** (linked at the bottom) **to confirm that you have read & understood the information in the syllabus.**

Course Description: This course introduces you to the study of matter & its changes. Chemistry is the “central” science. The instruction in this course is provided using a combination of lecture, virtual & in-person laboratory assignments, quizzes, and LOTS of problem solving. Chemistry is a course that builds upon itself. What you learn in the beginning of the year, will still be used in January and all the way to May. Our tests will include both old material & new content. They are cumulative.

Course Objectives

First semester:

- Unit 1 - **Introduction to Chemistry**: lab safety, math, measurement, laboratory skills, & equipment use
- Unit 2 - **Matter**: the nature & classification of matter, the phases of matter, & the classifications of matter
- Unit 3 - **Kinetic Molecular Theory and Phase Changes**: changing matter both chemically & physically involves energy; making and/or breaking forces results in changes in phase.
- Unit 4 - **Atomic Structure & Compositional Stoichiometry**: atomic theory & the characteristics of atoms. The Mole Concept discusses atomic matter in terms of mass, moles & molecules
- Unit 5 - **Periodic Table Basics & Electron Configuration**: the Periodic Table is the primary resource used in any chemistry class. Memorizing it is not required while understanding how (& why) it is organized IS extremely important; this includes the placement of electrons within an atom (which serves as the foundations of chemical reactivity of different elements)
- Unit 6 - **Trends of the Periodic Table**: Atomic properties of the elements can be predicted based on an element's location in the Periodic Table.

Second Semester:

- Unit 7 - **Bonding**: basic information about bonding; chemical composition of compounds (chemical formulas & names)
- Unit 8 - **Chemical Reactions & Stoichiometry**: There are different types of chemical reactions; the Law of Conservation of Matter is used to determine chemical composition in chemical reactions
- Unit 9 - **Gases**: quantitatively, conceptually, and graphically represent the relationships between pressure, volume, temperature, and number of moles of a gas
- Unit 10 - **Rates of Reaction**: reactions occur when chemicals collide; the rate at which a chemical reaction occurs can be affected by changing concentration, temperature & pressure.
- Unit 11 - **Solutions, Acids and Bases**: describe solutions and the nature of acids and bases.

BOTH Mrs. DrB and Mrs. Fulford expect you to join Google Classroom, Schoology (an online learning program where you will find problem sets for numerous content areas), and Collisions (a chemistry simulation program). The codes for these will be provided to you.

Classroom Rules & Expectations

When you are in the classroom, you are expected to:

1. Come **prepared** for class; **have the needed supplies** (see supply list below)
2. **Sit up in your desk**, have your brain, eyes, & ears turned on; listen, take notes (as needed), & complete assignments, participate in conversations by asking or answering questions
3. **Be on time.** You are considered tardy if not in your assigned seat at the bell.
4. Unless you are using it to gain access to class, **PUT YOUR PHONE AWAY.**
5. **Food/drink are NOT permitted in the classroom.** Water/Gatorade in a clear water bottle is ok.
6. With very few exceptions, **personal grooming does not need to occur in class.**
7. **Turned assignments on time;** they need to be **legible & organized;** & **they need to be YOUR work, not someone else's!**

When you miss class (due to illness, school activity, etc.):

1. Since most everything will be available to you online (through Google Classroom), you are expected to log into Google Classroom (for your class period) to find out what we did in class and what you need to do to stay caught up.
 - PowerPoints (& other resources) will be posted in the classroom, so you can see the content that was covered.
 - Worksheets/assignments (as PDFs) will be there also
 - If you have access to a printer, please print out any worksheets/assignments made and try to complete them (if you need help, then be ready to ask for assistance when you return).
2. **Make-up work:**
 - It is **OUR responsibility** to be available to help you understand the material taught during your absence.
 - It is **YOUR responsibility** to find the resources and complete the work. If the work is NOT completed as arranged, zeros will be given for the missed work!
 - if you have a **planned ABSENCES** (including school sponsored ones), it is YOUR responsibility to talk to your teacher BEFORE missing class and to complete (ON TIME) any assignments/activities/tests that are scheduled (to be due/occur) during the absence.

Consequences of behavior: You are expected to behave properly in the classroom Any behavior that disrupts teaching and/or learning will not be tolerated & will result in:

First offense* – warning from teacher

Second offense – one on one conference between you and your teacher (usually conducted after class – may result in an unexcused tardy for the next class period)

Third offense – parent contact WITH before or after-school detention & (if warranted) immediate removal from classroom

Fourth offense – referral to the administration for further disciplinary actions

* there are some behaviors that will require immediate referral to the administration

Supplies:

- **notebook of some sort in which you can store notes, assignments, etc.**
- **pencils (mechanical with extra lead).** We discourage the use of pens while working problems. Correcting mistakes is easier when you can erase the mistakes.
- **calculator** with basic functions.
- **Colored pencils**
- **1-2 colored highlighters**
- **Paper** for your notebook
- While we hope we will not need them, we still believe that **having a face mask with you isn't a bad idea**
- **CLEAR water bottle**

Getting assistance from your teacher during class

- We are here to help you understand the content of the course; if you have a question you need to ask it.
- We do want you to remember that there are 20-30 of you and one of us. If you need more than just a couple of minutes of help, please consider coming to see us during PRIDE, or before or after school.

Getting assistance during non-class hours

- The reason for having the resources in Google classroom is so that you can revisit them outside of class when you might be doing homework. Please use the resources to assist you.
- Regardless of who your teacher is, if you need additional assistance:
 - **Mrs.DrB offers:**
 - LIVE HELP: office hours (1 hour per night, Monday – Thursday) when she will be online to respond to your questions. We do this through an online office hour document that is open 24/7. She will provide you with the exact times
 - The office hour document is for any content related question you might have; We do not answer content questions through email.
 - ONLINE STUDY SESSION: The evening before every test, (8-11 pm)

Course Assessment Plan

Semester Grades – Lee County High School is returning to 9-week grading periods. Your final semester grade is calculated as follows:

Final semester grade = **the course average (80%) & a final exam (20%)**

The course average takes the average of the two 9-week grading periods. **NOTE:** It is possible to exempt the final exam (providing you meet the requirements as describe in the student handbook) both the fall & spring semester final exams.

Chemistry is a course based on mastery of the content. This means you will need to demonstrate what you know, can apply and/or can do (by yourself) without the help of teachers or peers. Your grade is evaluated primarily by your test, quiz, & lab scores. **Grades in chemistry are based on points.**

- ✓ **Tests:** expect 3 major tests per 9-weeks. Checklists for units are provided (at the beginning of the unit) to let you know what the unit (& test) will include. You are not able to retake tests to improve your grade unless we offer this option to all students.
- ✓ **Quizzes:** you should expect quizzes to self-assess if you are building mastery of the recently covered content (for the purpose of preparing you to take the unit test). The quizzes may also include content that needs to be revisited.


NOTE: Quiz retakes may be allowed after proof of remediation. If you do not do well on a self-assessment quiz, you can choose to complete remedial work (to the satisfaction of your teacher) & then retake the quiz. This is not offered for all quizzes.
- ✓ **Laboratory procedures:** (points are earned for procedure & for lab write up)

Lab-work requires that you:

 - 1) wear required clothing (long pants, close-toed shoes) for safety
 - 2) follow procedures found in lab write-ups. You are expected to read the write up prior to beginning the lab.
 - 3) work with a lab partner (as directed or assigned by your teacher) to complete the lab
 - 4) turn in your own copy of the lab report ON TIME

NOTE: not all labs will be available if you miss class; if you cannot be provided the data, you will not be held accountable for the lab
- ✓ **Daily/class work/homework:** You should expect to have assignment(s) 2-3 days a week (some will be graded others will not be graded). Our goal is for MOST of this work to be done in class. As needed, it may need to be completed for homework.

NOTE: While daily assignments will not earn a lot of points, completing them & turning them in (ON TIME) prepares you for the test.

 **We expect you to turn in assignments on time!** At minimum, late assignments are assessed a 10% penalty per day & after 3 days a ZERO is given.