

**Honors Chemistry**  
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**Fall Semester 2023**

**Class Overview:** This course deals with chemical changes in matter. It includes topics such as elements, compounds, atomic structure, bonds, formulas, equations, stoichiometry, acid-base theories, solutions and states of matter. The honors class has a greater emphasis on problem-solving and mathematical calculations. **Because this is an honors class, students receive 1/2 extra quality point for the course. The standards for Chemistry Honors classes have been raised and there is much additional curriculum which is not included in the regular Chemistry class. Additional curriculum may include (but is not limited to): using significant figures in calculations, variations of the Ideal Gas Law (calculations and concept), greater emphasis on writing chemical names/formulas/reactions, calculations involving energy/light/electrons, exceptions to periodic trends and electron configurations, etc. A student that is used to making a “96 A” in every class may have to work much harder in this class to achieve that grade. Understanding, application & long term learning are essential.** Chemistry requires a lot of math, so it is important to have good mathematical skills. Often there is a **direct correlation between success in this class and success in Math 2.** In order to get full credit on math problems we will show our work and always use units because that is what scientists do.

**Supplies:** paper

pen/pencil (no bright colors please)

binder or some means to organize your work

scientific calculator (I use a TI-30X which is only about \$10-\$15, graphing calculators are fine if you already have one) - please let me know if you are unable to get a calculator, I will make sure you have one for the semester

***Optional but strongly recommended:***

colored pencils

highlighter (any color)

hand held pencil sharpener

glue stick or tape

ruler

scissors

**Classroom Donations:** Please consider donating any of the following items for the classroom: paper towels, Kleenex, hand soap, distilled water gallons, Ziploc bags

**Classroom rules and consequences:** Students are expected to be considerate of others' ideas, comments, criticisms, and opinions. Students are to arrive to class ready to participate, listen, and learn. Students who disrupt the learning environment of the class will receive the following:

1<sup>st</sup> offense      verbal or written warning

2<sup>nd</sup> offense      written warning/parental call (may receive break or after school detention if initial warning is unsuccessful)

3<sup>rd</sup> offense      break or after school detention (may be removed from class to office/parental conference)

4<sup>th</sup> offense      removed from class to office

**Exams:** Tests are given every couple of weeks as each unit is completed, see schedule on back.

-Students will be given a test result form that **must** be signed by the student **AND** parent/guardian.

-**Final exam:** more information about final exams will be provided at a later date

**Grading Scale:** 60% tests, 15% quizzes, 15% labs/activities and 10% homework

Lincoln County policy requires grades be entered within 10 days of the test date.

**Chromebooks:** Students are expected to bring the school-issued Chromebook to class daily. We will use the chrome books for data collection, virtual labs, video instruction, access to Canvas

**Cell phones/ipods/personal digital devices:** Cell phones are not to be out in sight or use during instructional, practice, group work, or assessment times. Cell phones should not be used as calculators on a regular basis and are never allowed during a quiz or test. Cell phones and other mobile devices must be silenced or turned off and put in a holder at the front of the classroom unless they are required for specific, assigned activities. Students using these devices inappropriately will be given a warning and are expected to put the device away. Continued misuse of any digital device will result in a discipline referral according to the school guidelines listed:

1<sup>st</sup> offense: verbal warning

2<sup>nd</sup> offense: parent/guardian notification

3<sup>rd</sup> offense: office referral – lunch detention

4<sup>th</sup> offense: office referral – one period of ISS and potential temporary loss of privileges (athletic eligibility, parking pass, club participation, etc)

5<sup>th</sup> offense: office referral – entire day of ISS

6<sup>th</sup> + offense: office referral - OSS

Please help me reinforce the importance of time-on-task and limiting unnecessary distractions. Cell phones and smart watches should never be used for any reason during a test or quiz, and will result in a grade of zero and an office referral.

**Attendance and Tardies:** This class will be moving at a fast pace and attendance is important. **You** are responsible for obtaining any missed assignments and for making them up. This includes getting the class notes, completing homework and making up any tests, quizzes, or labs.

**Tardies:** Time for tardies must be made up according to the following. Failure to serve the make-up time will result in office referral.

1<sup>st</sup> tardy: warning

2<sup>nd</sup> tardy: parent/guardian notification

3<sup>rd</sup> tardy: office referral – lunch detention

4<sup>th</sup> tardy: office referral – one period of ISS and potential temporary loss of privileges (athletic eligibility, parking pass, club participation, etc)

5<sup>th</sup> tardy: office referral – entire day of ISS

6<sup>th</sup> + tardy: office referral - OSS

**Flipped Instruction:** Instead of completing notes and assignments at home, students will view lessons and take notes at home and class time will be devoted to review, practice, labs and other activities. All lessons will be videos of me presenting the material and are available in Canvas. Students will be given notes outlines to complete while watching the video instruction. Students are to scan or take a picture of completed notes and upload into Canvas. Due dates are listed in Canvas. It is imperative that the videos are viewed by the due dates as the information given will be used in class and opportunities will be given to ask questions.

**Labs:** Safety is very important; all rules/instructions must be followed to the letter!

-anyone not following instructions/playing around/doing anything potentially dangerous or disruptive will be told to sit down and will receive a failing grade for that lab! Students must be prepared for labs by completing any pre-lab assignments and wear appropriate clothing: closed toe shoes, no baggy clothing/sleeves, hair tied back. Students who are not prepared for lab will not be able to participate in the lab and will be given an alternate assignment. It is important to the study of chemistry to do the labs and important skills will be taught and practiced.

**Homework:** Homework must be completed by the due dates. Homework will often be checked for completion and reviewed in class, occasionally homework will be collected and graded for accuracy. It is very important to complete

this work so you are prepared to ask questions, review and maximize our face to face time. Most assignments will be completed on paper and turned in.

**Quizzes** will be given frequently! These may or may not be announced. Successful completion of homework and other practice assignments will help ensure success on the quizzes. Quiz corrections can be completed to earn back half credit. Corrections involve writing the correct answer (or reworking entire problem) and a detailed explanation of the answer. Credit will not be given if corrections are not done properly.

**Grading:** I will be using a non-traditional grading system – standards-based grading. What this means is that students will be graded on their knowledge of specific learning standards. This allows students to be graded on what they know and what they have learned. For example, instead of receiving a single percentage grade for a test, each question will relate to an objective and each objective will receive its own separate grade. A list of standards and objectives that will be graded will be provided for students at the beginning of each unit and posted on my class webpage. The student’s grade for a standard will be based on their level of proficiency on the objectives within the standard. The standards will then be averaged for the student’s final grade. All students can improve individual standard grades through retesting after certain criteria have been met (choices include, but are not limited to: tutoring, additional problem sets, graphic organizer, test corrections, revising or making a flip chart, etc.) A more detailed description is available online

**Late Work:** Homework, labs, and other assignments that are turned in after the due date will be subject to a 10% deduction in points for each day late. These points can be made up by completing additional work that must be submitted prior to the start of the next unit. Students who have numerous absences due to illness will be given limited extra time with no penalty. A zero (0) will be entered in PowerSchool for all missing assignments, quizzes, and tests until the work is turned in.

**Tutoring and my contact information:** I will be available for tutoring after school by prior appointment only. Please feel free to call me at 704-736-1969 ext 62314 or email stownsend@lincoln.k12.nc.us. I will respond within 24 hours during the school week or Monday following the weekend.

**Chemistry topics build on each other, what you learn each unit will be used in the following units. It is vital that you keep up with homework and get help right away and/or ask questions if you don’t understand something.**

**Your success in this class is a direct result of the effort you put into it!**

**“You have brains in your head. You have feet in your shoes. You can steer yourself any direction you choose.” -**

**Dr. Seuss**

### **Tentative Course Topics:**

<b>Unit</b>	<b>Chapters in Book (Glencoe Chemistry: Matter and Change)</b>
Math in Chemistry	2
Atomic Structure	4, 5, 25
Periodic Table and Trends	6,7
Bonding	8,9.1, 9.2
Molecular Geometry	9.3,9.4,9.5
Moles	11
Chemical Reactions	10, 17
Stoichiometry	12
Gas Laws	14
Solutions, Acids, Bases	15,19
Energy and Equilibrium	13,16, 17, 18

Please complete the Syllabus Acknowledgement form located in Canvas or on my website

