

# Honors Chemistry I - Course Outline and Grading Procedures

Mrs. Cameron

**Honors Chemistry** is a full year course designed to introduce you to general chemical principles and to provide you with appropriate laboratory experience to supplement these principles. This is a rigorous course, which will build your skills in critical thinking, problem solving, and observation. There is a strong correlation between students' ability to do well in Algebra and their chemistry grade. Students will participate in the annual Science Fair. Grades from this will be distributed in the second and third quarters.

## Course Outline

The following topics will be covered:

History of Chemistry	Stoichiometry	Atomic Structure	Redox Reactions
Measurement and SI Units	Periodicity	Formulas and Equations	Gas Laws
Significant Digits	Chemical Bonding	Thermochemistry	Energy
Chemical Nomenclature	Acids and Bases	Solvation	

## Course Alignment with Lincoln High School Student Expectations:

<i>Academic, Social and Civic Expectations</i>	<i>Student Growth Opportunities in Chemistry</i>
<ul style="list-style-type: none"><li>* Students will be thoughtful communicators who read, write, listen and speak effectively in preparation for careers and/or post-secondary education</li><li>* Students will be creative and practical problem solvers</li><li>* Students will demonstrate continuous effort towards proficiency in all requirements for graduation</li><li>* Students will assume responsibility for their actions</li><li>* Students will contribute to the well-being of the wider community through service</li><li>* Students will recognize their importance as participating members of American society within a global context</li></ul>	<p>Group Lab Work, Article analysis, Special Projects, Presentations, Mathematical and Abstract Problem Solving Exercises</p> <p>There will be at least one possible portfolio entry per quarter.</p> <p>Lab work and demonstrations will apply to real-world applications wherever possible. This will lead to back ground knowledge concerning energy and natural resource use now and in student futures. This knowledge is essential for adults functioning in today's high-tech, fast paced world.</p>

**Grading** Grades will be determined on a total point basis. Your grade will be calculated by dividing the total points you received for the quarter by the total points available. Approximate point values are as follows: **Tests/Quizzes = 100/50, Homework quizzes = 30-50, Homework = 10, Lab reports = 35-100, and Special Projects = 100-150.**

**\*On all tests and reports units must be included in answers to receive credit for the problem.**

**NO UNITS NO POINTS**

## Materials

You will need the following:

- 1. A scientific non-graphing calculator, preferably a TI-30 series** \*note – no graphing calculators may be used on tests. It will be easier if you buy a non-graphing, TI-30 so that you can become accustomed to using it. Many students lose points on tests and quizzes due to improper calculator use. There will be some available for in-class use on tests.
- 2. A spiral bound notebook for taking notes**
- 3. A folder for handouts**
- 4. A 1 inch 3-ring binder for class materials**
- 5. A bound composition notebook**
- 6. A flash drive or use of online document storage**
- 7. Internet access either at home, the public library or school.**
- 8. A STUDENT email address**

## Classroom Management Procedures:

### *Students will:*

- Be seated and **ready to work** when class begins.
- Listen carefully and **follow directions**.
- **Be kind, polite and respectful** to others.
- **Bring all** needed materials to class.
- **Follow all school rules and safety rules.**

Attendance in class is very important in chemistry. When students fall behind, it is difficult to “catch up.”

All students and parents will read and sign a safety contract and classroom expectation handout before students are allowed to perform lab activities.

**Take care of lavatory and personal needs between classes.**

### **Submit assignments on time.**

- There will be a 10% reduction in grade for each school day the assignment is late.
- No work will be accepted that is more than 5 days late, unless under special circumstances.

### **Obtain the notes, handouts or assignments missed due to absence.**

- If you are absent on the day of a test or quiz, you will make it up within 2 days of your return.
- If you are absent for an extended period of time you will have several days to make up the test or quiz.

### Cell Phone Use:

Student use of cell phone and other electronic devices is only allowed with specific permission from the instructor. Usually, cell phones will be stored in a clear plastic organizer at the front of the room.

### Academic Integrity:

Learn the class material! Cheating is absolutely prohibited! There are academic consequences outlined in the student handbook if you are caught.

Major pieces of written work such as lab reports and the Science Fair Project will all be submitted to “Turn It In” for an originality/grammar check. (*See Acceptable Collaboration note below*\*)

The following conditions will be maintained while evaluations are being given

**Remain quiet until everyone is finished.**

**Stay in your seat until you are finished.**

**Keep your eyes on your own paper**

**No Cell Phones Allowed during test-taking**

**Collaboration/Study Groups:** Collaboration is encouraged. Study and lab groups should discuss class material, problems and lab activities. Lab data may be shared *but all other sections of lab reports should be the student’s original work*. When working with others, once you have figured out how to solve a difficult problem, complete the actual solution alone. It may be helpful to check answers with your group or with the teacher-provided answers. Problem solving using mathematics is a large part of this class and requires practice. In the end, students should be able to complete problems on their own. If you neglect to do the hard thinking when completing your homework you will find tests and quizzes to be extremely difficult if not impossible.

---

Text: Essentials of General Chemistry, 2<sup>nd</sup> Edition by Ebbing, Gammon and Ragsdale

Mrs. Cameron’s email: [cameronj@lincolnps.org](mailto:cameronj@lincolnps.org) (**Best way to reach me!**)

Website: <http://jpcameron.educatorpages.com>

Note: I generally stay after school on Tuesdays and Thursdays from 2:00-3:00 for extra help unless I have a meeting or other unavoidable conflict. This will be announced in class.

