

# LINCOLN HIGH SCHOOL

## ACCELERATED CHEMISTRY SYLLABUS

*“The object of teaching a child is to enable him to get along without his teacher”*

Welcome to accelerated chemistry! A brief description of this course and other pertinent information is included on this sheet. Please read both the front and back of these sheets with your parents or guardian.

**TEACHER:** Mr. Jarovski, **e-mail:** james.jarovski@k12.sd.us    **phone:** 940-2835  
**Website:** <http://jj104.k12.sd.us>

**TEXT:** Glenco McGraw-Hill, Chemistry Matter and Change, 2004  
- Offered online at [www.chemistrymc.com](http://www.chemistrymc.com) (**Disc Also Available**)

**LABORATORY MANUAL: (Additional materials will also be used)**  
- Glenco Chemistry Matter and Change Laboratory Manual, , 2004  
- University of Northern Iowa, Price Laboratory School, Cristal, 1993

### **MATERIALS:**

Three-ring binder	Assignment notebook
Scientific calculator    (TI-83 plus recommended)	Pencil/Pens

**PHILOSOPHY AND APPROACH:** The LAB is the heart of the course whenever appropriate. The design of most Laboratory activities is to require the students to develop a problem solving approach on their own and to come to a group conclusion. In order to achieve this many Lab activities are done before the topic has been discussed. After completing the activity the students are encouraged to develop explanations to explain the regularities. The student tries this first in group discussion and then with the help of reading assignments and class discussion. In this first year chemistry course we try to make the material as relevant as possible and to make the learning environment enjoyable. In order to maintain a student centered classroom the amount of direct instruction is kept at a minimum. This course uses the principles of chemistry to develop students' problem solving, group interaction, and critical thinking skills.

*Accelerated chemistry will move at a faster pace than regular chemistry. The topics will be discussed more in depth and two additional chapters will be covered. You are choosing to take this course – more preparation/study time will be expected.*

### **COURSE TOPICS/UNITS: (Estimated Time)**

#### *First Quarter*

Chapter 2/3: Data Analysis & Matter  
Chapter 4: Structure of the Atom  
Chapter 5: Electron Configurations  
Chapter 6: Periodic Table and Law  
Chapter 7: The Elements

#### *Second Quarter*

Chapter 8: Ionic Compounds  
Chapter 9: Covalent Bonding  
Chapter 10: Chemical Reactions  
Chapter 11: The Mole

#### *Third Quarter*

Chapter 12: Stoichiometry  
Chapter 13: States of Matter/Gases  
Chapter 15: Solutions  
Chapter 18 Equilibrium

#### *Fourth Quarter*

Chapter 19: Acids and Bases  
Chapter 16: Energy and Chemical Change  
Chapter 17: Reaction Rates

**ATTENDANCE/ MAKE-UP WORK:** Students who are absent from class are responsible for obtaining class announcements/assignments from the board before they leave or on my website. A computer version of the Book along with some worksheets is available at [www.chemistrymecom](http://www.chemistrymecom) , students will be given their username and password during the first week of school. The following is a list a procedures for other missing/makeup work:

**-Homework** – If you are missing, it is your responsibility to show the completed assignment before the scheduled chapter test. When present, No late/partial homework accepted.

**-Labs** – 2 pts per day for late labs up to 5 days then 1/2 credit will be given. If you are missing for a lab, you have until two days before the scheduled chapter test to make it up. All lab reports due because of excused absences will be accepted no later than one day before the chapter test.

**-Tests/Quizzes** – If you are missing for a quiz or a test it must be made up within 5 class days in which you are present of the originally scheduled test.

All make up labs and tests will start no later than 7:45 in the morning. During the Football and Track season I will be available only before school (7:00am). Appointments may be made with the other Chemistry Teachers to make up work after school. During the other times of the year I will be available before and after school.

**LAB SAFETY:** Please read the safety section at the front of your lab manual. **Note:** SAFETY GLASSES MUST BE WORN IN THE LABORATORY AT ALL TIMES. Regard every chemical as poisonous and flammable. Long hair must be pulled back to avoid catching fire and producing severe head burns. Become familiar with the safety equipment in the laboratory such as location of the fire extinguisher, eye wash fountain, safety shower, sodium bicarbonate, safety glasses, first aid kit, and fire blanket. Report any accidents to your instructor immediately. Do not bring food into the lab. At the end of each lab period, clean your equipment and lab tops. Dispose of loose paper towels in the wastebasket. Do not throw solids, acids, or bases into the sink. All substances that may be harmful to the environment must be deposited in the Think Tank!

**Problems:** Problem solving is extremely important if one is to master chemistry. Problems will be assigned and quizzes will be given over the problems and class discussions. In order to receive full credit for the assignment, answers to the problems must be accompanied by all of the work and units.

**METHOD OF GRADING:** Your grade will be weighted based on the labs, projects, tests, daily work, class participation and quizzes. The district grading scale and percent distribution is as follows:

A	100-93	Test	50%
B	92-85	Quiz	10%
C	84-76	Lab	30%
D	75-65	Homework	10% (Graded on Completion)
F	below 65		

**FINAL GRADE:** Your Semester Grade will be based on the average of the two quarter grades and the semester final with the final being worth 15% of the grade. Your Second Semester Grade will be based on the average of the last two quarter grades and the final cumulative test.

**Summary:** Chemistry is a fun, challenging and rewarding class. If you have any questions or concerns please feel free to address them with me at any time. I am here to do anything possible to make your experience a successful one. At anytime you need extra help you are more than welcome to come in at any time. I look forward to this year and hope that you learn to love and appreciate chemistry