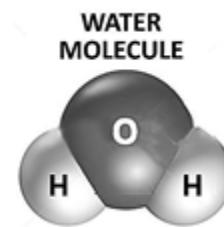




**633: Honors Chemistry**  
**North Hunterdon High School**  
**2016-2017 Syllabus**



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<b>INSTRUCTOR:</b>	Mrs. Bonnie Klingaman	<b>OFFICE:</b>	201A (above the mall)
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<b>WEBSITE:</b>	<a href="http://www.nhvweb.net/nhhs/Science/bklingaman/">http://www.nhvweb.net/nhhs/Science/bklingaman/</a>		
<b>GOOGLE CLASSROOM:</b>	classroom.google.com (course code: _____)		
<b>EXTRA HELP:</b>	After School - Monday, Wednesday, and Thursday (late bus days) from 2:30-3:10pm Extra help available in the Nucleus (science resource center) throughout the day		

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**COURSE OBJECTIVE:**

Chemistry is the study of matter, its interactions, and changes that it undergoes. In this course the development of the scientific method is presented along with the basic relationships of chemistry. Qualitative and quantitative analytical thinking will be developed based on laboratory experiences. This course is intended for students who plan a career in chemistry or related fields, or who desire an academically challenging course.

**COURSE MATERIALS:**

- Text book - *Chemistry: The Central Science*, 10<sup>th</sup> edition (by Brown, LeMay, Bursten)
- composition notebook, three-ring binder (2 inch), sticky notes to tab all 17 course units in notebook
- scientific or graphing calculator (must be able to clear its memory before quiz/test)

**EVALUATION:**

- Grades are determined using a total points system. The percentage is then converted to an alphabetical letter grade as outlined in the NHHS student handbook. Rounding is not guaranteed, it is earned on merit.
  - Methods of evaluation in this course:
    - Assignments - homework, Do Now, classwork, projects, presentations, etc. (variable points)
    - Quizzes - announced and unannounced quizzes will be given periodically (15-50 points)
    - Tests - always announced in advance and given at the end of each unit (60-100 points)
    - Exams – 9 Week Assessment, Midterm Exam, 27 Week Assessment, Final Exam (variable points)
    - Laboratory - experiments performed in class with follow-up questions/calculations (10-60 points)
    - Formal Lab Reports - written report graded with a rubric (50-100 points)
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**HOMEWORK (HW):**

- Lesson videos will be posted on google classroom most nights. Watch and listen to the entire video while recording key notes into your composition notebook. This will be checked daily for credit.
- Additional tasks may be assigned for homework depending on the topic of study.

**Do Now:**

- While the teacher checks HW each day, students will complete the Do Now problem and write their answer into their weekly worksheet. The Do Now will be reviewed as a class after HW check. At the end of the week, the Do Now worksheet will be collected for credit. Students absent during the week are NOT responsible for completing those particular Do Now problems, but must still turn in the worksheet at the end of the week.

**DAILY ASSIGNMENTS:**

- After reviewing the Do Now, students will work on the assigned Problem Set (PS) for the day. Student work is done individually, however classmates can be asked for assistance if a student is unsure of how to solve a problem and the teacher is unavailable at that time. Every student will get the PS checked by the teacher upon completion. Students will earn assignment points only AFTER the PS is turned in with 100% accuracy. If any problems are incorrectly solved, the teacher will mark them wrong and the student will make the necessary adjustments to the PS. Upon fixing the work, students will get the assignment re-checked and the cycle will continue until achieving 100% accuracy, at which point the teacher will APPROVE the PS and the student will receive full credit.
- If students are caught copying or sharing work, all parties involved will lose credit for the assignment, however it must still be completed before moving on to the next assignment. **\*\*DO YOUR OWN WORK!\*\***

### **ASSIGNMENTS NOT DONE:**

- Since all students work at different paces, there is a chance that individual students may not be able to finish the assigned PS during class time and be able to get it checked.
  - If the PS is done but not checked, turn it in to the teacher before leaving class so it can be reviewed.
  - If the student was unable to complete the PS, this will become an additional component to the student's homework that night. This PS assignment should be brought up to the teacher the next day (ASAP) for review.
  - Students should NOT move on to the next PS assignment until the previous assignment has been approved with 100% accuracy (unless told otherwise by the teacher). It is suggested that the student stay after school whenever possible so that any unfinished work can be completed & checked quickly.

### **LATE ASSIGNMENTS:**

- Daily homework and Do Now assignments will NOT be accepted late.
- Long term assignments (such as lab reports or projects) will lose 20% credit for each day that they are turned in late. The assignment will not be accepted after one week late.

### **LABORATORY:**

- Students will be told in advance of upcoming lab experiments so that they may dress appropriately. No students can participate in any lab activity without proper laboratory attire. Reading, highlighting, and answering pre-lab questions contained within Lab handouts will be assigned for homework periodically.
- It is possible that students may receive a "pop" lab quiz when they come to class. Students should prepare themselves by understanding the basics of each lab, such as: key equipment, materials, concepts, procedures, and safety concerns involved with the lab ahead.
- Inability to follow the lab safety rules or to endanger the wellbeing of oneself/others will result in an immediate dismissal from the lab, zero credit earned for the assignment, and disciplinary action.

### **OFF TASK:**

- The students' are expected to complete the PS and Lab assignments in a timely and efficient manner. Students may find themselves falling behind in assignments if they do not work responsibly in class. For this reason, the teacher will deduct 10% of the assignment's total points each time the student is recorded being off task. The advantage to working hard in class is that once the PS assignment is approved with 100% accuracy, students are free to use any remaining class time as they respectfully see fit.
- Examples of off task behavior include:
  - Using cellphones or chromebooks when not authorized
  - Doing assignments or studying for another class (these assignments will be confiscated)
  - Talking to and/or goofing around with classmates during worktime or in the lab
  - Not following lab protocol or leaving a mess in the lab

### **TEACHER'S ROLE:**

- The teacher's role is to assist students in understanding new content and solving problems. While working on a PS, students should first use their composition notebook and Do Now to review material. They should show work/steps on the PS before coming up to the teacher as this gives the teacher insight into what is wrong.
- If the line to see the teacher is long, students are encouraged to continue working on other problems while they wait for their turn (use every minute in class that you can!). Please be patient and kind to both your classmates and the teacher when immediate help is unavailable. Disrespect to any teacher or student in the classroom will not be tolerated and consequences may include: going to the end of the line, email/call home, teacher detention, or office referral (depending on severity of the incident).

### **HONORS CHEMISTRY COURSE CURRICULUM (GROUPED BY MARKING PERIOD):**

**Unit 1:** *Safety*

**Unit 2:** *Matter, Change, & Measurement*

**Unit 3:** *Atomic Structure & Theory*

**Unit 4:** *Electrons in Atoms*

**Unit 5:** *Periodic Trends*

**Unit 6:** *Chemical Formulas & Nomenclature*

**Unit 7:** *Stoichiometry*

**Unit 8:** *Aqueous Reactions*

**Unit 9:** *Chemical Bonding & Geometry*

**Unit 10:** *Thermochemistry*

**Unit 11:** *IMFs & States on Matter*

**Unit 12:** *Gases*

**Unit 13:** *Properties of Solutions*

**Unit 14:** *Kinetics & Equilibrium*

**Unit 15:** *Acids & Bases*

**Unit 16:** *Electrochemistry*

**Unit 17:** *Nuclear & Organic*

