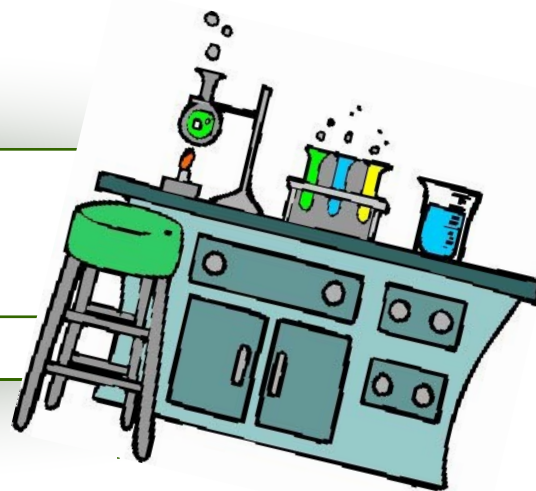


Miss Boone's

# Chemistry Syllabus

DHS Fall 2017



## Chemistry Course Description

Welcome to Chemistry! This course is fun for me to teach because it involves a lot of math & problem solving and all of the concepts are connected to each other. This means that the information and skills you learn during the first 6 weeks will be carried through until the end of the semester. Here are some of the topics we will study during the first 6 weeks:

- ⇒ Measurement & data collection
- ⇒ Chemical & physical properties
- ⇒ Atomic structure & models
- ⇒ Periodic Table & trends

As you can see, Chemistry is a physical science and therefore very different from Biology, which is a life science. In order to be successful in chemistry, it is imperative that you have a solid background in math. Only students who

have *successfully* completed math II (math III is even better) are advised to take chemistry.

One of the big questions that students and their parents often have is “Do I *need* to take Chemistry?” The answer depends—Chemistry is **not** a NC graduation requirement. The state of NC requires that students successfully complete biology, earth/environmental science, and a physical science. If you have already taken physical science, you do not need to take chemistry, however, you may still choose to.

Most 4-year colleges require applicants to take high school Chemistry. If you want to major in any kind of science, you will need to understand Chemistry, because the structure and behavior of chemicals affects ALL of the sciences. So if you want to be a doctor, nurse, pharmacist, marine biologist, or veterinarian,

you will need to know some Chemistry!

Even if you never take another science class, chemistry will help improve your critical thinking and problem solving skills, which you will use no matter what career you choose...that's why colleges want to see it on your transcript!

The workload in chemistry is non-negotiable. Yes, we will do some fun labs, but with those labs comes data analysis and before those labs come Cornell Notes, practice problems, and pre-labs. If you are opposed to hard work, this is not the class for you.

Over the next couple of pages, you will learn about my expectations of you and what you can expect from me this semester. Both parents and students should read the syllabus and lab safety guidelines carefully.

### Miss Boone's Info

Room 201

1st: Honors Chemistry

2nd: Chemistry

3rd: Honors Earth/Environmental

4th: Planning

shannon.boone@onslow.k12.nc.us

Or call DHS at (910)-347-2958

Edmodo Chemistry code:  
**bxspvf**

### Supply List:

- 3 subject spiral notebook with plastic cover
- Notebook and Graph Paper
- Pens, Pencils, and Highlighters
- Colored Pencils
- Scientific or Graphing Calculator (NOT your phone calculator)
- Scissors
- Glue Stick and Tape Dispenser
- NCFE Chemistry reference table
- \$5 Lab Fee

## Electronics Policy

In this classroom, never use electronics **without permission from Miss Boone**. Sometimes we will use electronics as learning tools, but cell phone use could cause you to miss valuable instruction or even be a safety hazard during a lab activity.

Using your electronics for activities that are not directly connected to the lesson shows that you are off-task, not here to do your job (AKA learn), and DO NOT RESPECT ME.

Your phone is NOT an acceptable substitute for a calculator. It is absolutely imperative that you obtain a calculator and bring it to class daily so that you are familiar with the device you will be using on tests and practice throughout the semester and on the final exam.

Any unauthorized electronic use will result in an initial warning, but repeat offenses will lead to confiscation and potentially even banning of the device as per DHS student handbook policy.

# Behavioral Expectations

In this classroom, you are expected to show:

## 1. ACCOUNTABILITY

- A. All required materials (including any homework) should be brought to class each day. See late work policy.
- B. At the sound of the late bell, you should be quietly **in your seats** working on the bellringer. See tardy policy.
- C. When you are absent, you are responsible for obtaining and completing any and all make-up work. Do not interrupt class to ask about something that you missed. Any confusion can be addressed outside of class or during an individual work time with Miss Boone. If you have ISS OR OSS, the above rule applies.

## 2. EFFORT

- A. **TRY**. Learning is about growth, not just right and wrong. Learning is not confined to this 90 minute period—that's what homework is about. If it's not your work, I don't want to see it.
- B. Contribute to any and all group assignments including class and lab activities. This includes listening to all instructions the FIRST time they are given, as well as carrying out an equal share of the tasks.
- C. "I can't" is unacceptable.

## 3. MATURITY

- A. Minimize time outside of class. Students may use the restroom as needed during INDEPENDENT work time ONLY. Only ONE student may leave the room at a time. Unless you are called out of class by the front office or have a medical emergency, you don't need to leave the classroom.
- B. *Wait* for the dismissal bell at the end of class to leave your seat. **NO CROWDING THE DOOR!**
- C. Exercise **SELF-CONTROL!**

## 4. RESPECT

- A. While one person is talking, no one else is. This also applies to any time Miss Boone, a guest, or a classmate is sharing with the class. Have private conversations during private time. If you do have something to say, **raise your hand!**
- B. Communicate respectfully with your peers, Miss Boone, and any classroom visitors.
- C. If it doesn't belong to you and you don't have permission, don't touch it!

**BOTTOM LINE: MAKE SMART CHOICES!**

ALL DHS HANDBOOK POLICIES WILL BE ENFORCED.

If you cannot adhere to these policies, you will receive a warning followed by appropriate action including but not limited to loss of classroom privileges, chill out, parent contact, after-school detention, and ultimately administrative referral.

# Semester-At-A-Glance

## Atomic Structure & Properties, Periodic Table & Trends, Chemical Bonding: 1st Six Weeks (25% Of Final Grade)

**Topics:** Lab safety, collecting & organizing data, dimensional analysis & unit conversion, properties of matter, subatomic particles, atomic structure, electron configuration (electron cloud & Bohr models), electromagnetic radiation/quantum theory, interpreting the periodic table, types of chemical bonding, characteristics of bonds, chemical nomenclature

**NC Essential Standards:** 1.1, 1.2, 1.3

## The Mole concept, Chemical Reactions, Gas Laws, Solutions, Acids, & Bases: 2nd Six Weeks (25% of Final Grade)

**Topics:** Avogadro's number, molar mass, percent composition & empirical formula, chemical equations, qualitative & quantitative analysis of chemical reactions, stoichiometry, properties of acids & bases, solution processes & properties

**NC Essential Standards:** 2.2, 3.2

## Reaction Rates, Chemical Equilibrium, Physical equilibrium & Phase Change: 3rd Six Weeks (25% Of Final Grade)

**Topics:** factors that effect reaction rate, equilibrium conditions, LeChatelier's principle & equilibrium shift, energetic nature of phase change, phase diagrams, calorimetry, final exam review

**NC Essential Standards:** 2.1, 3.1

## Chemistry NC Final Exam

**25% of Final Grade**

There are NO exemptions for the NC Final Exam in Chemistry. The final exam will count for 25% of the overall course grade. In the past, the Chemistry Final Exam included 45 multiple choice questions. Released test items can be found online at the NC DPI website (linked on my webpage).

## GRADING PRACTICES

### **MAJOR ASSESSMENTS (50%)**

#### **Interactive Notebooks**

Your interactive notebook is a working document that we will use daily both in and out of class. Right-side activities will include the notes that you take in class and occasionally guided notes that you receive. Left-side activities will include guided and independent practice completed both in and out of class. Notebooks will be collected and checked on the day of each unit test. They will not be accepted late if you are present. If you are absent on test day, you should return to class prepared to submit your notebook. Your notebook will be checked for overall completion, then for accuracy/quality on 3-5 components of teacher choice, so it is to your benefit to keep it up to date at all times.

#### **Tests**

Unit tests will be made up of a combination of multiple choice and free response questions.

#### **Testing Policy**

Students will be informed of test dates at the beginning of each unit. If you are absent on the day of a test, you must make arrangements to make it up outside of class time ASAP!

Graded test will be returned within five days of the test date and reviewed in class. Instead of test retakes, I give a six weeks test at the end of each grading period. You may replace your lowest unit test grade with your six weeks test grade, so be sure to prepare for those! If you miss a test during the grading period and fail to make it up, your six weeks test grade will automatically replace the missing grade.

### **INDEPENDENT AND SMALL GROUP PRACTICE (25%)**

**Class Work, Home Work, and Quizzes:** Homework assignments and due dates for each unit are posted in Study Island and will be due the night before each unit test. Additionally, any work that does not get finished in class, like independent notes, summaries, or left-side practice, will become homework. Left-side activities will be graded in a variety of ways: white boarding and presenting answers in class, homework quizzes, and spot checks. Sometimes we will review left-side activities together in lieu of a grade. Be prepared for a quiz EVERY DAY. We may not take a quiz every day, but as we are learning new material, it is essential to constantly assess understanding. If you begin packing up before the bell, you will receive a pop quiz. A higher (passing) score on a unit test can replace ANY quiz grade within that unit and will also be used to replace quizzes missed due to absence. Bellringers, in-class practice, review worksheets, gallery walks, POGIL activities, webquests, and open book assessments also fall into this category.

### **INVESTIGATIONS & INQUIRY (25%)**

**Labs, Problem-Solving Activities, and Research:** Any time we conduct a lab or hands-on activity (at least once a week), you will be responsible for collecting, reporting, and analyzing data. Inquiry-based activities for which you design your own methods will be presented in a formal laboratory report (at least once every six weeks). Research-based projects, assigned each six weeks, will also fall into this category.

#### **LATE WORK**

All assignments are expected to be on time. If you are present, your assignment must be turned in. Because we will often spend class time going over left-side activities, I do not accept late work from students who are in class. However, your interactive notebook grade at the end of each unit carries far more weight than a daily assignment. In other words, if you were unprepared for class one day, you can still get caught up with your notebook and improve your overall grade. Every concept in this course builds upon another one, so **mastery is our mindset**. If you do come to class unprepared you may forfeit lab privileges; allowing you to participate in a lab you don't understand would be negligent on my behalf.

#### **MISSED WORK**

Attendance in chemistry is crucial, because we will be moving quickly, and you will miss a lot in a day! Try your best to be in attendance as much as possible. Absences in excess of 10 will result in failure of the course. If you are absent, you should return to class with any assignment that was due while you were out. When you miss class, check your calendar or message me if you are not sure of what assignments to be working on. If you miss an activity that cannot be made up, you may have to obtain data from another student or complete an alternative assignment I have provided. Please see me regarding any extenuating circumstances. I will ALWAYS work with proactive students to keep you on track.

#### **TUTORING & EXTRA CREDIT OPPORTUNITIES**

I will make myself available immediately after school at least 2 days each week (I will provide these days at the beginning of the week). If you require additional help or have scheduling conflicts, please see me ASAP. I understand busy schedules, I do not understand apathy. Supplemental tutorials for each unit will also be available in Edmentum.

Extra credit will be offered at teacher discretion. Do NOT ask me for extra credit if you have made a choice not to do the class work, homework, or studying that was required of you.