**Chemistry**

**Mr. Tobin**

**2017-2018**

**Room C205**

“A scientist is happy, not in resting on his attainments but in the steady acquisition of fresh knowledge.”

* Max Planck

**To contact Mr. Tobin**

Via e-mail: michael.tobin@chsd117.org (Best way to reach me!)

In person: Cranberry Room (office)

By phone: 847-395-9426

**Classroom Information🡪Website:**

Assignments and information will be updated to our Chemistry website located at <http://MrTobinScience.weebly.com/>

**Required Student Conduct:**

* You will show respect to yourself, one another and the instructor.
* You will not violate each other’s right to learn.
* You will not violate the right to teach.
* This is a science course – you **must** be working on science while in class.
* Laboratory safety rules **must** be followed at all times.

**Classroom Norms:**

* Everyone participates.
* Support claims with evidence.
* Challenge ideas, but respect the person.
* Revise and Rethink often.

**Course Summary:**

This science course is an investigative study where laboratory experimentation and readings from and discussion of scientific findings are linked together in our studies. As Chemistry students, you will investigate what makes chemistry unique in the natural world, both qualitatively and quantitatively.

**Course Materials Required:**

* **Pens/Pencils/Highlighters**
* **Assignment Notebook**
* **Notebook**
* **Folder or binder**

**Grades will be based on the following:**

Classwork/Labs/Homework 40%

Assessments (Tests/Quizzes) 40%

Semester Final Exams 20%

**Grading:** A = 100 – 90%; B = 89 – 80%; C = 79 – 70%; D = 69 – 60%; F = 59% and below

Grades will be available using Infinite Campus Portal: **http://www.lakeseagles.com/** under the academic menu. You will need to know your ID number and PIN.

**Additional Help:**

Don’t be afraid to get help if you are having difficulty in class. Just ask! I am available before school, during school and after school. Please let me know when you would like additional help so that I can make sure I do not have another obligation with the school. My free periods are listed below.

Mr.Tobin: 1st, 2nd, and 5B

**Classwork/Homework:**

Practice makes perfect. Homework will be assigned when needed. It is your responsibility to complete homework/classwork assignments on time.

To receive credit, every problem must be attempted. **If you are not sure how to do a problem, you are expected to write down all given information, including any formulas and definitions that may apply to the problem.** Just reading the problem and deciding you do not know how to solve the problem without showing any written work will result in **no credit**. If you are stuck, please come in for help or email me. I often help students with homework through email. A quick email lets me know that you are stuck and allows me the chance to help you, hopefully before you become frustrated.

If you are absent from class, it is **your** responsibility to make up any work (i.e. notes, labs, activities, homework). All work will be on the website. Also, use your lab partner as a resource. Write down your lab partner’s name and email so that you can contact him/her if you are absent from class. If you have an excused absence you have *two* days for each day of absence to make up work. If you miss a lab or an extra activity talk with us before class in room C205 to reschedule the lab. Exceptions may be made on an individual basis.

**Laboratory Reports & Activities:**

Expectations for each lab will be clearly stated at the beginning of the laboratory experience. All lab data and lab results will be recorded. Since we spend so much time in lab, your lab reports and other lab activities are the highest percentage of your semester grade. This means that they are incredibly important!

All labs reports require you to think and process what happened in lab. This is not necessarily an easy task but one that you will get better at as the semester progresses.

Lab safety is taken very seriously!!! Any unsafe practices will result in no credit.

**Quizzes:**

There will be periodic quizzes throughout the course. Quizzes should be used as a gauge of how well you understand the material. If you do poorly on a quiz, get help learning the material as soon as possible! Be prepared!

**Tests:**

At the end of each unit, there will be a test. The test will be based on labs, activities and concepts covered in class. If you *know* that you will miss a test you must take the test before you leave. If you are absent on the day of the exam you have two days for each day of absence to make up the exam. Exceptions may be made on an individual basis.

**Quality of Work Standard:**

I have high, but reasonable expectations for each of you. You need to understand and strive for excellence in everything you do. Anything worth doing is worth doing very well. Work turned in must:

* **be neat and legible (teacher’s discretion)**
* **be thorough (we will discuss what this means)**
* **include all calculations, units and canceling of units**
* **appear in a logical order**
* **be well written (complete sentences, correct grammar, etc)**
* **be done on clean sided paper**

At the beginning of the school year and throughout the remainder of the year, I will provide examples to illustrate these requirements. For four weeks at the beginning of the school year, work not meeting the above requirements will be returned with a score and a note, stating what needs to be fixed. To receive the points for that assignment, the assignment must be fixed so it meets the above expectations. After the fourth week, work not meeting the standards will not be accepted for credit, although it will be corrected and returned.

**Lab Safety:**

We will cover lab safety in-depth starting the first week of school and continuing through the end of the school year. Here are some very basic lab safety rules:

* No food, gum or drinks will be allowed in the laboratory at any times.
* No jackets or coats will be worn in the lab. Store backpacks under your desk.
* Do not touch laboratory supplies until directions are given.
* Know the locations of the fire extinguishers, the eye-wash and first aid kit.
* Wear Safety Goggles when directed to do so by the teacher.
* Clean all lab surfaces and materials before the end of any lab activity.
* When using fire or heat: Tie back long hair and loose clothing.
* Turn off hot plate immediately after use. Touch only with hot gloves.
* Never point a heated container, such as a test tube, at anyone.

*When our curriculum involves the handling and/or consumption of food, staff will notify students and parents/guardians in advance. Accommodations and/or alternative assignments will be made available for students with documented allergies.  Please contact the classroom teacher or administration with any questions.*

**Computer/Ipad Usage:**

Follow all directions of School Acceptable Use Policy. Classroom Computer Equipment may be used only with teacher’s permission.

**Academic Dishonesty:**

As defined on the student handbook (http://www.chsd117.org/assets/attachments/l09122014\_LCHS\_Handbook\_update\_2014.2015.pdf) Cheating, Plagiarism, and Theft of Intellectual Property will be strictly enforced. Letting another student copy your work is equally as offensive as the person doing the copying. Consequences for cheating even on minor assignments can result in being withdrawn failed from the class which means you will receive an F for the course and be placed in a study hall for the remainder of the semester. It is also important to note that all incidents are cumulative and cross curricular during a student's attendance in District 117. This means a student could have been caught cheating as a Freshman in Physics, then later caught a second time as a Junior in English 3 and would then receive an F for that semester of English at that time. In science classes, depending on the lab assignment, some group collaboration is allowed and expected, however some parts of the lab assignment may be intended for individual work only. Therefore, this does not mean a student can copy your lab in the locker bay just because you are in the same group together. Further details on specific assignments will be clearly outlined by your teacher as needed.

**Brief Schedule**

The following is a list of topics we will cover by semester. It is important that you stay on top of your work in Chemistry because concepts build on each other. Things you learn in the first unit will be necessary throughout the course, including the last unit.

Semester One

Atomic Structure

 Density

 Periodic Properties

 Nuclear Chemistry

Forces

 Bonding

 Nomenclature

 Chemical Reactions

 Reaction Rates

 Acids/Bases

 Semester Two

 Stoichiometry

 Energy

 Solubility

 Solutions

 Gases

 Biochemistry

**Some Final Thoughts:**

I cannot emphasize enough the reason that I teach is to help young people become rational human beings with a passion for making the world a better place. Everything I do in the classroom is directed at this purpose. I want you to succeed and will help you in this quest. I am available to help you!! Please do not hesitate to ask or email me for help! The last thing we want is for you to sit at home or in class struggling.

While I will try to bring in activities and experiences that you will enjoy, learning is often hard work. Some people believe that if something is not fun, it is not worth doing. Too many people use this as an excuse for not doing their work or performing poorly on assignments. Remember, the most pleasing things in life are rewarding, but not always fun. As John F. Kennedy said, “We do this not because it is easy, but because it is hard.”

*Allergy Information*

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*Course Policies and Procedures*

*The LCHS student handbook outlines school wide policies, regulations, procedures, and discipline. All will be adhered to and upheld in the classroom. To find more information on the following, please reference these pages in the student handbook:*Attendance Interventions
Academic Dishonesty / Plagiarism
Cell Phone Policy

**Chemistry 2017-18**

“Chemistry...is one of the broadest branches of science, if for no other reason that, when we think about it, everything is chemistry.”

-  Luciano Caglioti

**To contact Mr. Tobin**

via e-mail: Michael.Tobin@chsd117.org (Best way to reach me!)

in person: Cranberry Team Room (C101), C205, or C202

by phone: 847-395-9426

* Files and assignments will be updated our Chemistry site located at

**www.MrTobinScience.weebly.com**

**Course Summary:**

This science course is an investigative study where laboratory experimentation and readings from and discussion of scientific findings are linked together in our studies.  As Chemistry students you will investigate what makes chemistry unique in the natural world, qualitatively and quantitatively.

**Brief Course Schedule**

It is important that you stay on top of your work in Chemistry because concepts build on each other. Chemistry is a course based on scientific reasoning. You are expected to gain the skills to learn and explore your environment and the materials that you are working with.  The following is a tentative list of topics we will cover this year.

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| --- | --- |
| Semester One* Safety
* Scientific Method
* Math and Measurements
* Periodic Table, Atomic Theory
* Nuclear
* Matter and intermolecular forces
* Electron Configurations and Ions
* Bonding/Naming
* Chemical Reactions
* Acid/Base Chemistry
 | Semester Two* Formula Stoichiometry
* Reaction Stoichiometry
* Energy, Thermodynamics
* Solubility and Solutions
* Gas Laws
* Gas Stoichiometry
* Biochemistry
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The full classroom syllabus will be located on our class website

Please read the classroom procedures and policies on Mr. Tobin’s website then please return this portion and your LAB SAFETY SHEET to your teacher. This will count as a homework assignment!

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I have read the course syllabus and understand the expectations and requirements for Mr. Tobin’s Chemistry course at Lakes Community High School.

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Parent/Guardian Name (print)                              Student Name (print)

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Parent/Guardian Signature                                                   Student Signature