Overview

This is one of three high school NGSS courses required to fulfill Maryland graduation requirements, and is completed after Life Science. This course is designed to expose students to half of the NGSS high school physical science performance expectations, as well as select earth and space science performance expectations. Students will be exposed to such topics as matter, atomic structure, periodic table, chemical bonding, chemical reactions, stoichiometry, and energy. Advanced practices in lab safety, tools, techniques, and experimental design are woven into the content in inquiry-based lab experiences. Students who intend to move on to AP science courses will receive additional depth and scope of instruction. This course is crafted and paced for students that intend to pursue careers in engineering, medicine, or science. Recommendation: Satisfactory completion of Biology or Honors Biology, satisfactory completion or current enrollment in Algebra II, and teacher recommendation.

Course Outline

Unit 1: Intro to Chemistry/Measurement
Unit 2: Atomic properties
Unit 3: Waves
Unit 4: Bonding and Periodicity
Unit 5: Reactions
Unit 6: Nuclear Chemistry
Unit 7: Stoichiometry
Unit 8: Thermochemistry
Unit 9: Gases

Materials

- Textbook: PEARSON CHEMISTRY
- Computer
- Composition paper (lined paper) for binder
- Pencils
- colored pens/pencils/highlighters for color coding
- Calculator that can perform logarithmic functions
- Google Calendar or old-school planner

Grading Policy

Due to the shift to virtual learning for the Fall semester, the high school grading policy has been adjusted in order to provide students a better method to demonstrate their mastery of the content. The grades will now be divided into two categories: Mastery Assessments (50%) and Progress Assessments (50%). The previously utilized Final Exam category has been incorporated into the Mastery Assessment category in order to better align with online learning. Mastery Assessments will continue to be any assignment that demonstrates the summation of a student's learning - tests, projects, essays, etc. Progress Assessments will continue to be any assignment that demonstrates a student's progressing towards mastery of a concept - daily work, quizzes, discussion participation, etc.

Students will have three days from the assigned due date to submit work late; each day after that, the assignment will be docked 10% off the final score. Teachers will establish a due date and a deadline for each assignment. After the deadline, late work will not be accepted. In extenuating circumstances, please work with the teacher directly.
Expectations during live synchronous sessions

- Be on time for live session
- Be “present” during instruction
- Be prepared to learn
- Mute yourself
- Respect others
- Actively engage and participate at appropriate times
- Be professional
- Video must be on

Expectations during asynchronous sessions

- Submit assignments by due dates
- Be “present” for check-ins
- Don’t hesitate to ask questions
- Seek help when need it

Academic Dishonesty

All students at Queen Anne’s County High School are expected to conduct themselves with great pride in academics and the community at large. To this end, it is expected that all students will maintain academic integrity in every assignment. Work must be completed individually unless otherwise directed by the teacher. Plagiarism (the practice of taking someone else’s work or ideas and passing them off as one’s own) is a severe offense at QACHS and will result in immediate consequences, such as:

- Parent Contact by email or phone
- Detention or Referral (depending on the severity of plagiarism or assignment)
- Immediate Zero on the Assignment (Possible “redo” of the assignment for partial credit is at the discretion of the instructor)
- Conference with the Academic Dean

Examples of Academic Dishonesty (not an exhaustive list):

- Using unauthorized materials and/or resources
- Copying work from another student or from the web
- Working with other students on an assignment intended for individual work
- Having someone else complete any part of your coursework for you
- Using online searches or third party apps to find answers to your assessment questions
- Posting answers to assessment questions online

Emergency Procedures

All emergency procedures (fire drills, weather drills, etc.) have been reviewed with the students as they pertain to evacuation and/or shelter in place situations. Each drill’s instructions are specific to the classroom location and crisis situation. If you have any questions or concerns about what your student should do in the case of an emergency, please speak to your student and/or email me directly.
Parent/Guardian Questionnaire

Click here to complete the following information below.

Child's Name _______________________

Parent/Guardian Name(s) ________________ Relationship to student ____________________

Do you regularly check PowerSchool to access your child's grade and attendance?  ___ yes ___ no

Have you updated your contact information through the school?  ___ yes ___ no

How is your internet access?  ___ excellent ___ spotty ___ poor

Is there anything else you would like to share or would like me to know about your child?

Student Questionnaire

Click here to complete the following information.

My full name is _______________________

I liked to be called ____________________.

Grade ________________

What science classes have you taken before in high school?

What math classes have you taken before in high school?

What are your goals for this school year?

What are your plans after high school?

Schedule: 1st pd _______ 2nd pd_______ 3rd pd ______ 4th pd_________

What do you like to do outside of school?

Student, sign here to signify that you have reviewed the syllabus information and you agree to put forth my best effort both in class and out of class to be successful. In addition, you agree to read the required material, study for exams, complete classwork, homework, and ask for help when you need it.

x_________________________ Date__________

Parent/Guardian: Sign Here to signify that you have reviewed the syllabus information:

x_________________________ Date__________