Honors ChemistryII/Advanced Placement Chemistry
2026-2027 School Year

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Description: The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. There is a great deal of information to cover.

Academic Integrity: This is a college-level course and the teaching and assessment methods will follow that of college as much as possible. Much emphasis will be placed on **STUDENT** responsibility, and like college, you will not "get" an A by doing your work at the last minute and turning in assignments of marginal quality. Any work that is suspected of being copied from another student or from another outside source will be given a failing grade and the student will be required to re-write the assignment if he or she wants partial credit. Allowing another student to copy your work is also a violation of the Honor Code Policy and will receive a zero.

Big Idea 1: Quantities in chemistry are expressed at both the macroscopic and atomic scale.

Big Idea 2: Properties of substances observable at the macroscopic scale emerge from the structures of atoms and molecules and the interactions between them.

Big Idea 3: At its heart, chemistry is about the rearrangement of matter. Understanding the details of these transformations requires reasoning at many levels as one must quantify what is occurring both macroscopically and at the atomic level during the process.

Big Idea 4: Energy has two important roles in characterizing and controlling chemical systems.

Course Outline: The following topics will be covered in the course. Note that there may be additions or deletions, and the order in which the topics are discussed may change. In addition to completing the indicated laboratories, we will be completing student driven inquiry labs to support the new AP Chemistry curriculum.

Unit 1: Atomic Structure and Properties
Unit 2: Molecular and Ionic Compound Structure and Properties
Unit 3: Intermolecular Forces and Properties
Unit 4: Chemical Reactions
Unit 5: Kinetics
Unit 6: Thermodynamics
Unit 7: Equilibrium
Unit 8: Acids and Bases
Unit 9: Applications of Thermodynamics

Class Requirements

Materials: Students are **required** to bring the following items to class:

- Two 3-Ring binders with paper (at least 2")
- Calculator – any kind can be used in class and on AP Exam
- Pencils/Pens/Highlighters

Textbook/Websites: We will be using the following textbook in class. Each student will be assigned a book to take home.

Chemistry, The Central Science, 15th Edition by Brown, LeMay, Bursten, Murphy, and Woodward

Some of the assignments for this course will require internet access at home. **If Internet access is an issue for a student, it is that student's responsibility to let the teacher know before the assignment due date. There are always computers available before and after school and during lunch if needed.**

Students in AP Chemistry, as in College Chemistry, are to be responsible for their own learning. This means reading ahead in the text, making up missed work without being told to do so, asking questions, and taking detailed notes in class. FLEX review sessions will be as needed and at the request of students. It is up to the students to make sure these sessions are attended. You should expect to spend, on average, one hour per night working on AP Chemistry assignments.

Grades are calculated as follows:

Summative (70%):	Tests, Lab Quizzes, TSNF Quizzes (cumulative, ½ test grade)
Formative (30%):	Sketch Notes, Lab Participation, Wednesday Weekly Quiz (current chapter), Multiple Choice Mondays (cumulative)

Students will complete a portfolio which will count as a test grade in the second nine weeks and the fourth nine weeks. You will need a 3-ring binder for this, and it can be left in the room if you choose.

The semester grade will be calculated as follows:

40% First Nine Weeks
40% Second Nine Weeks
20% Teacher Made Exam

The AP Exam is scheduled for Thursday, May 6, 2027 at 12pm.

General Expectations

- Come to class on time and prepared
- Complete all classwork and homework when instructed
- Use class time effectively
- READ ALL TEXT THAT IS ASSIGNED
- Stay in your seat until the bell rings
- Clean up after yourself
- No squishy toys/silly putty.
- NO CELL PHONES
- **No personal computers** are allowed at any time during class

Electronic Devices/Cell Phone Policy:
Per the SBHS Student Handbook...

South Brunswick High School has written an outline of expectations and procedures related to the use of cell phones/earbuds/electronic devices during the instructional day. These expectations and procedures are consistent with Board Policy 4311.

Students may not use cell phones/electronic devices between 7:30 am and 2:40 pm each day (this includes earbuds/headphones, speakers, etc.). As a result, student use of cell phones/earbuds/electronic devices is prohibited during each class period and class change. These devices must be off and **OUT of SIGHT**.

SBHS expectation for student use of cell phones/earbuds/electronic devices during the instructional day:

- The use of a student cell phone/earbuds/personal electronic device is prohibited during instructional time, cell phones should be off and away from 7:30 am - 2:40 pm each day with the exception of student lunches. Students may be permitted to use their cell phones/earbuds before/after school and in the cafeteria during their assigned lunch period unless removed by administration.
- Staff and administration are not responsible for lost, stolen, or damaged cell phones/earbuds/personal electronic devices.
- Staff and administration will not disrupt instruction to conduct searches for lost or stolen cell phones/earbuds/personal electronic devices.

Consequences for misuse of cell phones/earbuds/electronic devices during the instructional day:

- First Offense - The teacher/staff will confiscate the student's cell phone/earbuds and return it at the end of class. A minor incident will be recorded in Educators Handbook. ***Failure to follow instructions will be seen as insubordination and will result in further disciplinary action.***
- Second Offense - The teacher/staff will confiscate the phone/earbuds, turn it into the office. A Minor Incident will be entered in Educators Handbook. The student may pick up at the end of the day. ***Failure to follow instructions will be seen as insubordination and will result in more disciplinary action.***
- Failure to comply with teacher confiscation will lead to an Office Referral in Educators Handbook for Insubordination and confiscation by administration. At that time a parent/guardian will then need to pick up the phone or item.

****Electronic Devices Are NOT Allowed During ANY Test Session, NO EXCEPTIONS****

Also, students may **not** use their **personal computers** at any time during class. Lastly, headphones and earbuds are **not** permitted to be used during class time or while in the hallways.

Please Note: Cell phones will be collected on days that assessments are given. If a student refuses to turn in their cell phone, they will receive a zero for the assignment. If they are caught with another phone, they will receive a zero on the assignment.

Tardy Policy:
You are expected to be in the classroom when the tardy bell rings. If you are not, you will be marked as tardy in Infinite Campus.

Per the SBHS Student Handbook...

> South Brunswick High School values instructional time and is committed to protecting that time to the greatest extent possible. Our teachers use the entire class period to provide instruction and support to all students. As a result, whenever a student is late to class, he or she misses out on necessary instruction and can create disruptions to the learning environment when entering the room. Our goal for this policy is to encourage all of our students to value, protect, and take advantage of the instructional time available and to take responsibility for their education.
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> As it relates to this policy, tardiness refers to:
> - Any student arriving late to class without a pass from a staff member
> - Any student that arrives late to school without a note from a parent or doctor
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> Possible actions related to tardiness:
> - After school detention
> - ISS
> - Restriction of Parking Passes
> - Removal of Extracurricular events such as athletics, Prom, etc...
> - Revocation of Driving Privileges

County Dress Code Policy
The county dress code policy will be followed and can be found here.
https://boardpolicyonline.com/bl/?b=brunswick#&&hs=141605

Students are not permitted to wear hats or hoods in class, and they should be covered fully from armpits to mid-thighs. This is NOT an all encompassing statement, and you should take a moment to review the entirety of the dress code policy.

- **1st Offense** = Student will be asked to correct the inappropriate attire while at school or parent will be called to come to school and replace the unacceptable clothing or student will be placed in ISS for the remainder of the day.
- **Any Further Offenses** = Will result in disciplinary action as deemed appropriate by the principal

Flipped Classroom:
This class will be run as a flipped classroom where students will have a video to watch which goes with their notes. The videos will be linked in Google Classroom. Videos will be kept to 20 minutes or less if at all possible. I will make every effort to allow students about 20 minutes at the end of class to begin watching their video. When students come to class the following day, I will spend a brief time expanding on the video. Rest assured, I will still be teaching and reviewing in class. The videos allow the students to have a preview of the concept so they have a better idea of where I will be going with the material. Because chemistry is a math based lab science, having students watch the videos will give me more time to assist students in class with the more difficult math concepts as well as allow for more hands-on activities and labs.

Wednesday Weekly Quizzes

- At least once a week, you will have a short timed quiz, approximately 20 minutes. The questions will be similar to problems that you have already completed and the answers have been made available. These quizzes will cover the current chapter.

TSNF Quizzes

- In your TSNF book, there are TSNF statements divided by chapters. These are rote memorization facts.
- Every IL Day (the study day before the test), you will begin with a Thou Shalt Not Forget (TSNF) quiz. The quiz will have four to five questions. You will have ten minutes to complete it.
- The TSNF quizzes will be cumulative, meaning once you have quizzed on Chapters 1-3, those statements will always be fair game for the remaining TSNF quizzes through Chapters 19 and 20.

Labs:

- I take lab safety very seriously. Students will be given a lab safety contract that they must adhere to. Students will receive 50 points for completing the actual lab. Proper lab attire must be worn and includes closed toe shoes with a back (no crocs/sandals), long pants (no leggings or holes in pants), no midriffs, and hair pulled back. If a student fails to have the proper attire for labs, they will not be allowed to complete the lab and will receive a zero for their lab participation grade. The remaining 50 points will come from a lab quiz after the lab has been completed and reviewed in class. If a student has an excused absence, the teacher will arrange an alternate assignment.

Tests

- I do my best to create valid and thought provoking assessments. There are very few available resources for creating test questions most like the ones from the AP exam due to the security that should be maintained with those assessments.
- Tests include multiple choice and free response questions

AP Science Late Work

- All assignments are due on the date given when assigned. Late work will receive a 15 point penalty per day. If it is not turned in by test day, it will be marked as a zero in Infinite Campus. It will not be accepted after the chapter test. This includes labs.

AP Science Absence on Test Days

- If you are absent on the day **before** a test, you are still expected to complete the test with the rest of the class the next day because you will not miss any new instruction.
- If you are absent on a test day the following will be policy: If absence is EXCUSED, you can schedule a make-up day within 5 school days. If absence is UNEXCUSED, you will take an alternate free response only exam and that must be completed within 5 school days.