HONORS CHEMISTRY

Mr. Eli Mello
Room: 456
Phone: 508-336-7272 (x62456)
Email: melloe@seekonkschools.org

Overview
Chemistry is the building block for all branches of science. The concepts of matter and atoms, an understanding of chemical reactions and processes, and the discovery of chemical structures and bonding have advanced technology and materials during the past three centuries. Modern chemistry has changed the way we live. The major themes we will address are related to the structure of atoms and compounds, the properties of elements and compounds, and reactions of chemical compounds. We will use print and multimedia resources, lecture, notes, and discussion, as well as hands-on activities to better understand the world of chemistry.

Text
(COST TO REPLACE IF DAMAGED OR LOST: $129)

Materials
Covered Text Book, Notebook/Binder, Calculator, Pencils, Pens

Grading Policy

HOMEWORK (15%): Homework will be given frequently and must be completed before the following class meeting. Textbook reading and note-taking will be assigned as homework often.

CLASS WORK/PARTICIPATION (15%): Class work will be assigned periodically and must be completed in class for credit. Class work may be individually or group based. Participation includes daily preparation, attitude, cooperation, and teamwork.

ASSESSMENTS: QUIZZES/TESTS/LABS (70%): Pre/Post Lab Assessments will be provided with most lab activities. Quizzes will be given frequently and in a variety of formats. Quizzes cover present and past class material, and are intended to help prepare for tests. Tests will be given at the end of a unit and are intended to prepare for the mid-year and final exams.
SHS MISSION: All students will achieve their maximum potential by becoming responsible, productive citizens and life-long learners.

CLASSROOM RULES AND EXPECTATIONS

IN THE CLASSROOM
- Inappropriate language, behavior, and attitude will not be tolerated and subject to teacher and administrative disciplinary action.
- No food or drinks other than bottled water are allowed during class time.
- Keep the desks clean. Writing on a desk means that you will clean all of them during detention.
- Keep the classroom clean. Throw all trash in the garbage at the end of the period.
- Come to class prepared. Bring your covered book, a notebook or binder, and a pen and pencil to every class.
- Respect everyone at all times. Respect yourself, your peers, and your teachers.

LATE TO CLASS
- Everyone is expected to arrive to class on time. Arrivals after the bell, after the door has been closed, will be considered late and subject to disciplinary action.
- Only students with passes will be excused.
- Students more than 15 minutes late will be considered AWOL.

PASSES
- Passes will be issued to only one student at a time and will be limited. Students must sign out/in.

SUBSTITUTES
- All work left with substitute teachers must be completed and turned in at the end of the class period for credit. No work, no credit.

MATERIALS
- Students who fail to come to class proper materials consistently may face disciplinary action.

EXTRA HELP
- Extra help sessions will be after school on Mondays and Thursdays.

HOMEWORK
- Homework will be given on a regular basis and is due the following class period.
- Late homework will receive half-credit for one day late, and no credit thereafter.

MAKE UP WORK
- All missed homework/classwork due to an excused absence must be made up within a reasonable amount of time.
- Quizzes and tests should be made up within a week of returning from an absence.
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COURSE SYLLABUS

SUBJECT NOTE: Chemistry is cumulative. Every lesson is important. Math skills, organizational skills, and familiarity with the Periodic Table are essential skills. Memorization of key concepts is a requirement. Practice problems make the language and mathematics of chemistry less intimidating, easier to understand and apply to problem solving.

CURRICULUM GUIDE

First Quarter:

Unit A: Matter & Measurements, and Energy
Chapters: 1, 2, 3
Pace: 3 weeks
Content: Lecture, Notes, Readings, Problem Sets, Activities, Quizzes, Test

Unit B: Atoms, Elements, Molecules, Compounds and Composition
Chapters: 4, 5, 6, 7
Pace: 5 weeks
Content: Lecture, Notes, Readings, Problem Sets, Activities, Quizzes, Test

Second Quarter:

Unit C: Chemical Reactions and Chemical Quantities
Chapters: 7, 8
Pace: 4 weeks
Content: Lecture, Notes, Reading, Problem Sets, Activities, Quizzes, Test

Unit D: Electrons, The Periodic Table, and Chemical Bonding
Chapters: 9, 10,
Pace: 4 weeks
Content: Lecture, Notes, Reading, Problem Sets, Activities, Quizzes, Test

*THE MIDTERM EXAM WILL COVER ALL 1st AND 2nd QUARTER MATERIAL*
SHS MISSION: All students will achieve their maximum potential by becoming responsible, productive citizens and life-long learners.

CURRICULUM GUIDE

Third Quarter:

**Unit E**: KMT, Gases, and Solutions  
**Chapters**: 11, 12, 13  
**Pace**: 5 weeks  
**Content**: Lecture, Notes, Reading, Problem Sets, Activities, Quizzes, Test

**Unit F**: Acids & Bases  
**Chapters**: 14 (and additional resources)  
**Pace**: 3 weeks  
**Content**: Lecture, Notes, Reading, Problem Sets, Activities, Quizzes, Test

Fourth Quarter:

**Unit G**: Kinetics & Equilibrium  
**Chapters**: 15 (and additional resources)  
**Pace**: 3 weeks  
**Content**: Lecture, Notes, Reading, Problem Sets, Activities, Quizzes, Test

**Unit H**: REDOX, Thermochemistry, and Electrochemistry  
**Chapters**: 16 (and additional resources)  
**Pace**: 5 weeks  
**Content**: Lecture, Notes, Reading, Problem Sets, Activities, Quiz, Test

**Bonus Unit Topic #1**: Nuclear Chemistry  
**Chapter**: 21

**Bonus Unit Topic #2**: Organic Chemistry  
**Chapter**: 22

*THE FINAL EXAM WILL COVER 3rd AND 4th QUARTER MATERIAL*
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STUDENT INFORMATION SHEET
Please complete and sign this form after reviewing the information in the packet. Keep the rest of the packet for your reference and return this sheet only. Feel free to include any notes or additional information at the bottom of the page. Thank you.

Student’s Name: ________________________________________________

PARENT/GUARDIAN CONTACT INFORMATION

Name: __________________________________________________________

Relationship to student: _________________________________________

Address: _______________________________________________________

Telephone #: (day/work) ______________________________

(home/evening) ______________________________

E-mail address: _________________________________________________

Signature: _________________________________ Date: ________________

NOTES: