

CHEMISTRY B
COURSE SYLLABUS
40.0510000
ELIZABETH ANDREWS High School

Teacher(s): K. Jones
Room Number/s: F-108
Semester: Semester 2, Term 2 2015
Textbook: Chemistry: Matter and Change

Phone Number: School-(678) 676-2602/Voice-(678) 676-2665
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Tutorial/ Extra Help Days: M, T, Th, F
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Tutorial Location: F-108
School Website/Teacher Website:
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Textbook Price: \$ Current Value

Department Philosophy: The philosophy of the science department is to nurture a sense of wonder and to empower every student to connect their knowledge of science to everyday experiences.

Course Description: The course will cover the following topics: classification of matter, atomic theory and electron configuration, periodicity, bonding, nomenclature, chemical reactions, and stoichiometry.

Course Prerequisites: Student must have Passed Algebra 1 and II

Course Outline: Pacing of course/amount of content covered may be adjusted to accommodate variations in the length of the semester and academic needs of students served.

Georgia Performance Standards related to Habits and Nature of Science will be incorporated throughout each unit. (see below)

Georgia Performance Standards

Co-Requisite – Characteristics of Science

Habits of Mind

SCSh1. Students will evaluate the importance of curiosity, honesty, openness, and skepticism in science.

SCSh2. Students will use standard safety practices for all classroom laboratory and field investigations.

SCSh3. Students will identify and investigate problems scientifically.

SCSh4. Students use tools and instruments for observing, measuring, and manipulating scientific equipment and materials.

SCSh5. Students will demonstrate the computation and estimation skills necessary for analyzing data and developing reasonable scientific explanations.

SCSh6. Students will communicate scientific investigations and information clearly.

The Nature of Science

SCSh7. Students analyze how scientific knowledge is developed.

SCSh8. Students will understand important features of the process of scientific inquiry.

Georgia Performance Standards

SC1 Students will analyze the nature of matter and its classifications.

SC2 Students will relate how the Law of Conservation of Matter is used to determine chemical composition in compounds and chemical reactions.

SC3 Students will use the modern atomic theory to explain the characteristics of atoms.

SC5. Students will understand that the rate at which a chemical reaction occurs can be affected by changing concentration,

SC6. Students will understand the effects motion of atoms and molecules in chemical and physical processes.

CCGPS Chemistry Literacy Standards

L11-12RST3: Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.

L11-12RST5: Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas.

L11-12RST7: Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.

L11-12RST10: Read and comprehend complex literary and informational texts independently and proficiently.

CCGPS Chemistry Math Standards

MCC9-12.N.Q.1: Use units as a way to understand problems to guide the solution of multi-step problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.

MC9-12.N.Q.3: Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.

**Common Core Standards for Literacy and Mathematics will be co-linked with the Georgia Performance Standards for Science in daily instruction as appropriate.*

Course Outline:

Week 1:	Stoichiometry/Kinetics
Week 2:	Stoichiometry /Kinetics
Week 3:	Gas Laws/Behavior of Gases
Week 4:	Gas Laws/Behavior of Gases
Week 5:	States of Matter/Phase Changes/Intermolecular Forces
Week 6:	Energy/Calorimetry/Specific Heat
Week 7:	Energy/Calorimetry/Specific Heat
Week 8:	Solutions
Week 9:	Acid/Base Chemistry
Week 10:	Acid/Base Chemistry
Week 11:	Final Exam

GRADING CATEGORIES	*GRADING PROTOCOL
Formative Assessment-0%	A 90-100
Assessment During Learning-25%	B 80-89
Guided, Independent, or Group Practice-45%	C 71-79
Summative Assessment/Assessment of Learning-30%	D 70
	F Below 70

MATERIAL AND SUPPLIES

Textbook, 3-ring binder notebook, 5 Subject notebook, 3 composition books, calculator, writing utensil

TEXTBOOK AND RESOURCES

Chemistry: Matter and Change Copyright 2008

Electronic Textbook Website

<http://www.glencoe.com/ose/index.html>

***I will provide you with the access code at a later time.**

COURSE PREPARATION RESOURCES (EXAMPLES)

- Georgia DOE Georgia Performance Standards
<https://www.georgiastandards.org/>
- Kahn Academy
<http://www.khanacademy.org/science/chemistry>
Instructional materials

CLASSROOM EXPECTATIONS (RULES)

- Students should take responsibility for their learning and academic success.
- Parents should support student academic success, and advocate student learning.
- Always do your best
- Bring required materials daily.

- Clean your work area daily.
- Respect yourself, others, and this educational opportunity.
- Follow instructions at all times.
- Adhere to all EAHS policies and procedure
- Restroom passes are provided for emergency use only.
- 20-20 Rule: No restroom passes will be provided within 20 minutes of the start or end of class.
- Please see me privately if you need a medical exception to the policy.
- The restroom policy may be revoked if abused or if disciplinary problems arise.
- Be POSITIVE!

ACADEMIC INTEGRITY

Students will not engage in an act of academic dishonesty including, but not limited to, cheating, providing false information, falsifying school records, forging signatures, or using an unauthorized computer user ID or password.

DISCIPLINE

I follow all EAHS polices regarding attendance, dress code and behavior. Please do not ask me to deviate from these policies. Make sure you have read your student manual and understand what is expected.

HOMEWORK

Homework should be done outside of class. Please do not do homework assignments during class time. I will not accept late homework assignments.

LATE ASSIGNMENTS

Late work will not be accepted. All students will receive a generous deadline upon which to complete work.

MAKE-UP POLICY

See me for make- up work when you return from an absence. You will be required to acknowledge receipt of the make- up work and return it by a non-negotiable deadline.

RE-DO POLICY & EXTRA HELP POLICY

All major assignments (labs, portfolios & projects) will be checked incrementally to insure that you receive the best possible grade thereby negating the need to “re-do” work. We will put 100% of our focus on getting it right the FIRST time! However, you may attend tutorial sessions to receive extra help.

PROJECT/RESEARCH ASSIGNMENT

Projects and research assignments will be given throughout the semester to extend and enhance student learning.

ELIZABETH ANDREWS FINAL EXAM EXEMPTION POLICY

Students will not be eligible to exempt the final examination for this course.

STUDENT LEARNING OBJECTIVES TEST (SLO)

Students will complete an End of Course assessment utilizing the Student Learning Objectives Test for Chemistry (Chemistry B).

**The instructor reserves the right to adjust or revise the course syllabus at any time during the semester to meet the needs and learning styles of the students.*

(Read the entire syllabus and sign below.)

Student Signature: _____

Date: _____

Parent/Guardian Signature: _____

Date: _____

ROUTINES

*A sample weekly schedule is attached.

SAMPLE WEEKLY SCHEDULE

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
7:45-7:55	<i>Sponge-10 min.</i>	<i>Sponge-10 min.</i>	<i>Sponge-10 min.</i>	<i>Sponge-10 min.</i>	<i>Sponge-10 min.</i>
7:55-8:10	<i>Reading-15 min.</i>	<i>Reading-15 min.</i>	<i>Reading-15 min.</i>	<i>Reading-15 min.</i>	<i>Lab</i>
8:10-8:30	<i>Lecture-20 min.</i>	<i>Lecture-20 min.</i>	<i>Lab</i>	<i>Presentations (on some chemistry concept)</i>	<i>Lab</i>
8:35-8:55	<i>Guided Practice-20 min.</i>	<i>Guided Practice-20 min.</i>	<i>Lab</i>	<i>Presentations (on some chemistry concept)</i>	<i>Test</i>
8:55-9:15	<i>Guided Activity-20 min.</i>	<i>Guided Activity-20 min.</i>	<i>Clean Up/ Review</i>	<i>Presentations (on some chemistry concept)/Test Review</i>	<i>Test</i>
9:15-9:20	<i>Daily Quiz-5 minutes</i>	<i>Daily Quiz-5 minutes</i>	<i>Daily Quiz-5 minutes</i>	<i>Daily Quiz-5 minutes</i>	<i>Test</i>

SPECIAL WEEKLY SCHEDULES

TAG SCHEDULE

GUIDED PRACTICE-10 MINUTES

GUIDED ACTIVITY-10 MINUTES

TESTING SCHEDULE

SPONGE & READING (20 MINUTES)

LECTURE (10 MINUTES)

GUIDED PRACTICE/GUIDED ACTIVITY (15 MINUTES)

LEARNING LOG (5 MINUTES)

EARLY RELEASE

SPONGE & READING (20 MINUTES)

LECTURE (15 MINUTES)

GUIDED PRACTICE/GUIDED ACTIVITY (20 MINUTES)

LEARNING LOG (5 MINUTES)

***I WILL ASSIST ALL STUDENTS (IN AND OUT OF CLASS) ON AN AS NEEDED BASIS. STUDENTS WHO NEED ADDITIONAL ASSISTANCE ARE STRONGLY ENCOURAGED TO ATTEND TUTORIAL/EXTRA HELP SESSIONS.**

Classroom Contract

Ms. Jones,

I _____, promise to abide by all EAHS rules including rules stated in the Student Code of Conduct booklet. I will not create any distractions/disturbances in the learning environment, as I know it would not be fair to my peers. I promise to show respect to you and my peers by being prepared on a daily basis. I know that I will suffer consequences if my behavior is a distraction. Disruptive behaviors include, but are not limited to:

1. Being disrespectful to Ms. Jones or my peers
2. Possessing cell phones or any other electronic devices
3. Bringing food and drink to class
4. Defacing school property
5. Leaving materials such as textbooks and notebooks behind
6. Laughing out loud
7. Any classroom disturbance (that will disrupt the learning environment)

I know that disruptive behavior can lead to a referral to Mr. Perry, Assistant Principal of Discipline. My signature acknowledges that I understand the syllabus and expectations of Ms. Jones and EAHS. I promise to always bring my A game when I enter the classroom.

Signature _____

Date _____

Extra Chemistry Resources

<http://www.khanacademy.org/science/chemistry>

<http://concord.org/stem-resources/subject/chemistry>

<http://www.canby.com/hemphill/chmfrm.html>

<http://www.chem1.com/chemed/genchem.shtml#B2>

<http://www.chem1.com/chemed/genchem.shtml#B7>

<http://www.files.chem.vt.edu/RVGS/ACT/lab/Experiments/RVGS-Experiments.html>

<http://dwb4.unl.edu/Chemistry/microscale/MScale00.html>

<http://www.chemmybear.com/>

<http://www.acs.org/content/acs/en/education/resources/highschool/chemmatters.html>

<http://www.asdlib.org/onlineArticles/ecourseware/Manahan/GreenChem-2.pdf>

http://www.epa.gov/owow/monitoring/wsa/WRS_lab_manual.pdf

<http://ejw.i8.com/chemweb.htm>

<http://www.bestfreeonline.net/resources/free-chemistry-resources-for-students-and-teachers/>

<http://www.rsc.org/learn-chemistry>

<http://periodictable.com/>

<http://www.ptable.com/>

<http://www.chemicalelements.com/elements/c.html>

<http://www.periodicvideos.com/>