General Chemistry 2013 – 2014

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Textbooks Classrooms	Modern chemistry. Holt (2009) Common Assessment Laboratory Manual. Edson, Carvan, Hemmingsen (2009) Room 220, South Building.	
Course Description	Chemistry is the study of the relationships between the structure and properties of matter and energy changes associated with the changes of matter.	
Course Goal	The study of chemistry should allow students to be better able to think for themselves, become problem solvers, analyze proposed solutions and claims for others, and to become a better citizen in a world where issues involving science and technology are becoming more complex.	
Essential Skills	 Students will be asked to demonstrate the following skills. Critical thinking. Collect, analyze and interpret data. Solve realistic application problems. Accurately calculate mathematical answers. Clearly express understanding of concepts in written form. 	

Grading Policy	Course g 4-3-2-1 s	rading has been changed from the tradition ABCDF range to a standards-based cale.
4 3.5 3 2.5 2 1.5 1	100% (A) 95% (A) 90% (A-) 85% (B) 75% (C) 65% (D) 50% (F)	Activities:FORMATIVE:Homework, labs, etc.SUMMATIVE:Common Unit Exams.Progress Grade:Based on Standards-Based Score.Semester Grades:90%90%Standards-Based Score.10%Comprehensive Final Exam.✓Grades can be accessed through SIS.

Raymore Peculiar High School Policies

Guidelines for Success

- 1. Take notes over all lectures and discussions.
- 2. Turn in completed work on time.
- 3. Be considerate and courteous to your peers.
- 4. Participate with an "eager-to-learn" attitude.

Classroom Expectations	All students must uphold the standards stated in the Raymore-Peculiar High School student handbook. In addition to those standards, other expectations are as follows:
	\rightarrow Follow Directions: Whether spoken, or written by school or adult.
	\rightarrow Respect: Tolerant of all diversity, ideas, materials and cultures.
	→ Preparation: Supplies, assignments and communicate if not prepared.
	\rightarrow Integrity: Honest, individual, self-created work and making right choices.

Discipline	Disciplinary action will be taken upon infraction of the course expectations. Teacher action includes but is not limited to a safety seat, buddy room, teacher detention, after-school detention or office referral. For most infractions, consequences will ensue		
	in a particular order. Dependent upon the severity of the infraction, the sequence m		
	escalate to more appropriate consequences.		
	1. Verbal/written acknowledgement of the infraction from teacher (warning).		
	 Buddy room placement to remove student from temptation and behavior environment pattern. Student must process before or after school. 		
	3. Teacher detention assigned for not meeting classroom expectations.		
	4. Office referral for not meeting Raymore-Peculiar High School expectations.		

Classroom Activities	Students can expect lessons to be conducted primarily through lecture, reading the text, interactive computer programs, class discussion, videos and laboratories. Differentiated instruction will also be used to incorporate the variety of learning styles.
Major Assessments	Upon the completion of every unit, students will take a common assessment. At the end of each semester, students will take a comprehensive final exam. These assessments will count for the majority of the course grade. Along with all exams, common laboratories will be used to assess unit comprehension with analysis and investigation of realistic application problems.

Academic Issues

Class Materials	Students are expected to always have paper and a pen/pencil. Textbooks and scientific calculators are expected by each student to be fully prepared for class. A 3-ring binder or pocket folder is strong recommended for organizational purposes.	
Bell Work	Class periods may begin with a 5-10 minute assignment. These assignments will either serve as a review over previously taught material or prepare students for a specific classroom activity.	
Assignments	Daily practice and homework checks will be given to help understanding of the required material. Due dates will be announced and students will be responsible for meeting those deadlines. Keeping up with these assignments is critical for student comprehension of covered standards.	
Absent Work	The teacher maintains all absent work. It is the responsibility of the student to get any missed work. Students are also expected to have their missing work turned in after their absence. If a student has a lengthy absence, they need to speak with the teacher to arrange a plan for getting caught up on missing work. If a quiz or exam was missed due to absence, it is the student's responsibility to arrange a time to make up the assessment.	
Late Work	Any missing assignments can be turned in without penalty. Deadline for all late work is the unit exam.	
Retakes	Any student who wants to show better understanding on any exam will be given the opportunity to retake. An Academic Contract will be used within <u>one week of</u> <u>receiving the exam score to reschedule the retake</u> . Retakes must be completed during the designated dates determined by the teacher. Deadline for ALL retakes will be two weeks before the end of the semester.	
Retake Procedure	 If a student chooses to retake an assessment, that student must do the following: Complete an academic contract within one week of receiving original test score. It will outline how the student will demonstrate understanding, to include: completing and turning in all unit homework assignments, completing a retake assignment, and/or attending mandatory tutoring. Student will retake the exam during morning or afternoon tutoring; exam may be modified at teacher discretion. The teacher will contact parent if the student still does not meet mastery. 	
Extra Credit	NO EXTRA CREDIT will be available. Sorry, it's building policy.	
Tutoring	Tutoring will be made available throughout the week with all science teachers. Along with tutoring, students can visit the My Big Campus site through the Ray-Pec homepage. Worksheets, power points and problem solutions will be posted frequently to help any student at home.	

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Entering Class	Students are expected to use passing time to prepare for class. All items necessary for class should be brought by the student. Class will begin with a teacher signaled opening. When class begins, all student conversations are to stop and students are to sit in their assigned seat.	
ID Badges	Must be brought to class every day for identification and school security.	
Electronic Devices	Cell phones, MP3 players, and other electronic devices may be used DURING PASSING TIME and OUTSIDE THE CLASSROOM . If these items are in use or unnecessarily visible during class, the device will be confiscated. All items will be taken to the appropriate administrator.	
Food and Drink	Students may have food and drinks in the classroom. Students are expected to maintain a clean work area. If trash is not disposed, this privilege will be revoked.	
Hall Passes	Pass will be given out at the discretion of the teacher.	
SIS Grade book	 Students and parents can view grades through SIS online through the Ray-Pec home page. Assignments may be included in SIS but not given points. These assignments are provided to the student and parents as feedback. Teacher feedback may be provided in the "comments" section. Assignments may have any of the following marks instead of numeric scores. EXMP = exempt: The student is not responsible for the assignment; no score. MSNG = missing: The due date has passed and the student did not turn in anything; any missing score results in a zero until completed. ABS = absent: The student was absent during either the class the assignment was given or the time it was collected; any absent score results in a zero until turned in (once turned in, full credit will be assigned). 	

Tentative Unit Schedule

	First Semester		Second Semester
Unit 1	Matter and Energy	Unit 6	Chemical Reactions
Unit 2	Atoms –Building Blocks of Matter	Unit 7	Stoichiometry
Unit 3	Atomic Structure	Unit 8	Solutions and Gases
Unit 4	Periodic Table	Unit 9	Reaction Rate/Equilibrium
Unit 5	Chemical Structure	Unit 10	Acids and Bases
	Final Exam #1		Final Exam #2

Course Objectives

Science Essential Understandings	Chemistry Power Standards		
Broad categories that span all science classes (K-12)	Categories specific to Chemistry (10-12)		
 Critical thinking is enhanced through process skills, knowledge and investigations. 	 Objects and the materials they are made of have physical and chemical properties that can be used to describe and classify thom 		
2. Advances in technology and innovations	them.		
impact our world.	Properties of mixtures depend upon the concentrations, properties, and		
 All life is interdependent with one another and with its environment. 	interactions of particles.		
 Movement of matter and energy throughout living and nonliving systems follow laws, principles and patterns. 	 Physical changes in states of matter due to thermal changes in materials can be explained by the Kinetic Theory of Matter. 		
	4. The atomic model describes the		
Human activity affects and depends upon the continual changes of the earth's	electrically neutral atom.		
systems and resources.	 The periodic table organizes the elements according to their atomic structure and chamical reactivity 		
predictable and follow patterns.	chemical reactivity.		
	 Chemical bonding is the combining of different pure substances to form new substances with different properties. 		
	7. Mass is conserved during any physical or chemical change.		
	8. Forms of energy have a source, a means of transfer.		
	 Chemical reactions involve changes in the bonding of atoms with the release or absorption of energy. 		
	10. Nuclear energy is a major source of energy throughout the universe.		
	 Energy can be transferred within a system as the total amount of energy remains constant. 		