

CHEMISTRY -- Course Syllabus 2010-2011

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Textbook(s): **CHEMISTRY- Matter and Change**, Glencoe Publishers. The cost for replacement of lost textbooks is \$71⁹⁷ and study guides and lab manuals are \$17 each.

Course Description: This course is designed to acquaint the student with the composition of matter, atomic structure, symbols, the periodic table chemical formulas, equations, stoichiometry, gas laws, ionic and covalent bonding, solutions, acids, bases, and salts. There will be opportunity to develop an understanding of the scientific process through experimentation while learning proper techniques and safety procedures in the laboratory.

Pre-Requisite: You must have completed 1 unit of Algebra I.

Topics to be Covered: This is a tentative schedule of dates and topics that will be covered this year in the College Preparatory Chemistry classes. The dates are subject to change as the year progresses to adjust for the student's needs throughout the learning year. A more comprehensive overview of the content to be covered in this class can be found on the Cherokee County Website (www.cherokee.k12.ga.us) under performance standards ~ 11th grade ~ Science.

Characteristics of Science	August – May
Process of Science	August –May
Technique & Safety	August--May
Scientific Problem Solving	August--May
Matter	October
Atoms	October -- November
Periodic Table	December
MidTerm Exams	Week of December 15
Ionic Bonds	January
Covalent Bonds	January
Chemical Reactions	February
Mole	February
Stoichiometry	March
Solutions	March
Acids & Bases	April
Rates of Reactions	May
Flow of Energy	May
Final Exams	Week of May 26

Format: This will include lectures, outside reading, projects, reports, labs, discussions, worksheets, etc. Most assignments will be completed individually, but at times there will be small group work.

Student Requirements: It is very important that you are in class. It is difficult to make up work missed. Problem solving is a major part of this course; therefore, a basic scientific **calculator is required**. Scientific calculators vary in price, but calculators that will fill your needs in this class may be purchased for \$10.00-\$15.00. You will also need a **three (3) ring binder, paper, ruler, pencils, and pens** (blue or black ink), and a electronic media storage device (thumb drive, cdrw, etc)