

Roslyn Public Schools Science Department

Comparison between the Chemistry Regents and Honor Level Courses
September, 2008

	REGENTS	HONORS
Content	The course is based solely upon the New York State Regents Physical Setting-Chemistry core curriculum.	The course is based upon BOTH the New York State Regents Chemistry syllabus and the SAT Chemistry Subject test syllabus. Topics covered beyond the Regents curriculum include: Electron energy levels (orbital notation), Hund's rule, Aufbau principle, Pauli exclusion principle, chemical equilibrium, Gibbs free energy, solubility products, standard electrode potentials, conjugate acid-base pairs, amphoteric substances, normality, ionization constant, parts of a nuclear reactor, geometry of molecules, and freezing point depression equations.
Texts and Resources	Text: <u>Prentice Hall Chemistry Connections to Our Changing World</u> by LeMay, et. al, 2000 Review: <u>N & N Physical Setting Chemistry Star Review</u> , by Romano & Cameron, 2002	Text: <u>General Chemistry The Essential Concepts</u> by R. Chang, 2003 Review: <u>N & N Physical Setting Chemistry Star Review</u> , by Romano & Cameron, 2002 Review: <u>Princeton Review Cracking the SAT Chemistry Subject Test</u> , By Silver, 2005
Long Term and Short Term Assignments	Text questions for each topic are due at the end of each unit. Lab reports assigned are due 4-5 days after completion of the lab activity.	Extensive reading assignments of text and relevant materials, research assignments. Unit assignments from the text are due at the end of each unit. Lab reports are due 3-4 days after completion of the lab activity.
Homework	School Island and worksheet assignments of Regents-type questions are assigned daily. Approximately 30 min. of homework is assigned daily.	School Island and worksheet assignments of SAT Subject test in Chemistry and Chemistry Regents-type questions are assigned daily.

	homework is assigned daily.	Approximately 45 min. of homework is assigned daily.
Assessments <ul style="list-style-type: none"> • Tests • Quizzes • Labs 	Tests usually consist of approximately 20-25 Regents exam-type multiple choice and three to four free response questions testing student understanding and recall of lab activities, reading assignments, graph interpretation, etc. NY State Regents curriculum-appropriate lab activities-1200 minutes minimum.	Tests usually consist of approximately 30-35 SAT Subject test in Chemistry type multiple choice questions as well as Regents exam-type questions requiring students to analyze, interpret and apply data obtained from reading passages, charts, graphs, and/or diagrams. Tests and quizzes contain challenging analytical free response problems requiring both mathematical and conceptual thinking. NY State Regents Syllabus required labs plus Regents curriculum-appropriate lab activities in addition to advanced labs relating to the SAT Chemistry curriculum and advanced analytical and practical skills lab activities.
OTHER:	Slower pace, more drill & practice, memorization of terminology. Problem solving is limited to two step problems.	More rapid pace, more application and analysis. Problems require multiple steps to be solved.