Regents Chemistry Course Outline

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Key Learning Intentions
1. To develop a high level of competence in the following areas
   a. Chemistry knowledge
   b. Application of mathematical skills and problem solving in Chemistry
   c. Develop knowledge and skills of the scientific method and laboratory procedures
2. To complete both the NYS Regents Chemistry Curriculum, and Regents Chemistry examination in June.
3. To complete approximately 20 hours of laboratory work with its associated laboratory reports. (Required for Regents)
4. Further explore possibilities in Science education and research.

Regents Chemistry Curriculum

Laboratory Requirements
1200 minutes (20 hours) of laboratory experience and satisfactory laboratory reports on file. This will entail a minimum of fifteen 80-minute periods of laboratory work. (Lab reports are required for Regents Chemistry examinations and will be uploaded to TURNITIN.COM as evidence of lab work completed.)

Course Content
1. Physical Behavior of Matter
2. Atomic Concepts
3. Nuclear Chemistry
4. Periodic Table
5. Chemical Bonding
6. Moles/Stoichiometry
7. Kinetics/Equilibrium
8. Acids, Bases, and Salts
9. Oxidation-Reduction
10. Organic Chemistry

Required Materials

Review book: Brief Review for New York Chemistry the Physical Setting (Prentice Hall publication, 2021 edition). This is used for classwork and reviewing covered content. This is available in the SFP bookstore or can be ordered from the SFP website for approximately $20. Students should be aware that at this time the review book is for their own personal use and is not to be shared.

Also required: The SFP iPad is used for Google Classroom (materials, messages and assignments); Turnitin.com (lab reports) and for remote connection to data loggers during lab. Either the iPad or a notebook can be used for Chemistry notes, a second notebook is useful to record data and rough work in lab, keep a folder to store any returned tests and quizzes; these are extremely useful for review work, especially towards the end of the year for Regents review, pens, HB pencil, pencil eraser, sharpener, ruler (metric units of measurement), a scientific calculator.

N.B. Graphing or programmable calculators such as TI-84/85 are not permitted in New York State Regents examinations. A simple cheap 4 function or scientific calculator should be purchased and used in class.
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Grading Policy
All grades are given as a percent value. Because a test is more important than a homework, quarter grades and final grades are calculated by using a weighted average from each of the four graded areas below. A cumulative test will be given at the end of each quarter. The New York State Regents examination will make up 10% of the Final Grade for the year.

<table>
<thead>
<tr>
<th>Graded Area</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Tests</td>
<td>40%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>30%</td>
</tr>
<tr>
<td>Labs</td>
<td>20%</td>
</tr>
<tr>
<td>Homework</td>
<td>10%</td>
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</tbody>
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Your average test grade makes up 40% of your quarter grade.
Your average homework grade makes up 10% of your quarter grade.

Tests: These will be given at the end of each major unit. Students usually have 2 or 3 tests per quarter. Students will be given 1 week notice of each test for independent review.

Quizzes: Quizzes will be announced 2 or 3 days before being given, and will cover smaller sections of each unit covered. Quizzes which will consist of 10 multiple choice questions.

Labs: Students will complete on at least one full length lab report per quarter as well as numerous abbreviated reports. Digital copies of all lab reports will be uploaded to http://www.turnitin.com. Uploaded labs must be in either PDF, Google Docs or Microsoft Word file types. Plagiarism and copying are forbidden and will be dealt with as under the school’s policy on plagiarism.

Homework: It is expected that a student’s homework is completed with care and diligence. Regular homework assignments are an important part of the learning process. It is used for review purposes, for continuation of work that is not able to be completed during class time because of time constraints and for reinforcing concepts learnt.

Extra Help: Extra help will continue to be offered by all Chemistry teachers throughout the year. It is very important that students make use of this service as much as they can. The course can be challenging at times. The extra help schedule will be posted on Google Classroom and the Chemistry web page. Student can go to ANY teacher’s extra help session. Students may also email me at any time with their questions.

Attendance: Regular class attendance at St. Francis Prep is a major priority. Students are required to complete all required work even if they are absent. Excessive unexcused absence is detrimental to a student’s progress, and should be avoided as much as possible.

Electronic Device Use: Use of iPads in the classroom is at the discretion of the teacher. Students are not allowed to use their phones during class time. Inappropriate non-academic use of technology in the classroom or remotely will be dealt with by the Dean’s Office. Please review the school’s Acceptable Usage policy in this regard.