***Regents Chemistry Classroom policies***

***Materials***: Loose leaf Paper and Binder or notebook

 Pens and Pencils

 Folder

 Scientific Calculator

***Classroom Conduct:***

* Come to class on time and ready to begin working when the bell rings
* ALL CELL PHONES MUST BE HANDED IN AT THE BEGINNING OF CLASS!
* Ask instructor about work missed due to absence or lessons before the bell rings
* Have all assignments completed on time and have them out and ready to submit when the bell rings
* Participate, cooperate, and show respect at all times
* Ask for help and make arrangements to meet with the instructor as necessary

***Attendance:***

* Absence is not an excuse for any missed work. It is your responsibility to make up all missed work and obtain notes, data, etc. in a timely fashion
* IF YOU ARE EXCESSIVELY ABSENT, I WILL CALL HOME!!
* Promptly see the instructor upon your return to make arrangement to make up missed work and obtain necessary materials
* Missed work (homework, lab reports, etc. due during your absence) is due the day you return to school unless special arrangements have been made
* If you are absent for a test or quiz, be prepared to take it on the day you return
* If you are absent from a lab, you must make it up within two days of the absence or no credit will be received for the lab

***Homework:***

* Expect a homework assignment to be due at the beginning of class
* When you come into class, get out the homework assignment that is do right away
* Late/ Incomplete homework will not receive credit
* Be prepared to ask and answer questions based on homework assignments as there may be “pop” quizzes
* IF YOU FAIL TO HAND IN OUR HOMEWORK, I WILL CALL HOME!!

***Quizzes and Tests:***

* All tests and quizzes are cumulative
* There will be both announced and “pop” quizzes
* ·Unit tests will be given at the end of each major topic
* One week notice will usually be given for unit tests

***Laboratory:***

· New York State Regents Chemistry has a mandated laboratory requirement (equivalent to 30 lab periods) which must be successfully completed and documented in the form of a lab report with a passing grade in order to receive credit for the course · According to the New York State Regents “Only those persons who have satisfactorily met the laboratory requirements as stated in the state syllabus for a science shall be admitted to the Regents examination in such science.”

* Lab handouts must be read and understood prior to performance of the actual lab. Be prepared to answer questions based on the lab handout before you begin the experiment. This will help to make your lab experience safer and more successful.
* Lab reports are due the day after the lab has been completed. Reports will vary from formal write-ups to worksheets to projects/presentations
* Labs that are turned in one day late will receive a maximum of a 65. Labs turned in more than a day late will receive a zero. However, the labs will need to be submitted in order to fulfill the states lab requirement.
* Labs missed due to absence must be made up within two days of your return to school unless special arrangements have been made ahead of time with the
* Safety rules must be followed at all times. Any unsafe or inappropriate behavior will cause you to be removed from the lab. In this case, you will not receive credit for the lab.
* If you fail to meet the laboratory requirements, then you will not be admitted to the Regents exam and will not receive credit for the course.

***Extra Help:***

· You are encouraged to seek extra help from your instructor on a regular basis

· Extra help may be obtained from your instructor by making an appointment for after school

***Grading Policy:***

 Unit Tests 30%

 Lab Reports 30%

 Quizzes 15%

 Homework 15%

 Classwork 10%

 Sincerely,

Mrs. Fanek

 rfanek@yonkerspublicschools.org

Welcome to The Physical setting: Regents Chemistry Contract

Please read the classroom policies in this packet. Sign and return the signature form below.

I have read and understand the classroom and safety policies in this packet and agree to abide by them to the best of my ability. I am aware that I must meet the laboratory requirement in order to be eligible to take the Regents examination and pass the course. I understand that unsatisfactory labs and labs that are turned in late (two days) will not receive credit.

Student Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_

I have read and discussed the classroom and safety policies in this packet with my child. I understand that these policies have been created to provide a safe and successful learning experience for my child in Regent Chemistry. I am aware of the laboratory requirement and policy as outlined in this packet.

Parent Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_

Dear Parent/Guardian, I have found that communication via e-mail is very effective. If you would like to communicate with me in this fashion, please clearly print your email address below. Thank you!

Parent e-mail\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Welcome to The Physical Setting: Regents Chemistry

Course Outline

The Regents Chemistry course includes the following topics:

NOTE: THE ORDER OF TOPICS IS SUBJECT TO CHANGE

1. **Introduction to Chemistry**
	1. Definition
	2. Scientific Method
	3. Matter and Energy
2. **Classification of Matter by Properties**

A. Homogeneous and Heterogeneous Matter

 B. Changes in Matter

1. **Atoms: the Building Blocks**
	1. Models of the Atom
	2. How Atoms Differ
	3. Weighing and Counting Atoms
2. **Nuclear Chemistry**

A. Stability of Atoms

* 1. Nuclear Reactions
	2. Benefits and Risks of Radioactivity
1. **Arrangement of Electrons in the Atom**
	1. The Bohr Model
	2. The Quantum Model
	3. Electron Configuration
	4. Importance of Electron Arrangement
2. **The Periodic Law**
	1. History
	2. Electron Configuration and the Periodic Table
	3. Electron Configuration and Periodic Properties
3. **Chemical Bonding**

A. Why Bonding Occurs

* 1. Types of Chemical Bonds
	2. Comparison of Properties of Compounds
	3. Allotropic Forms
1. **Intermolecular Forces of Attraction**
	1. Properties of Molecules and Molecular Geometry
	2. Intermolecular Forces of Attraction
2. **Chemical Formulas and Compounds**

A. Chemical Names and Formulas

* 1. Using Chemical Formulas
	2. Determining Chemical Formulas
1. **Chemical Equations and Reactions**

A. Reading and Writing Chemical Equations

* 1. Significance of a Chemical Formula
	2. Balancing Chemical Equations
	3. Types of Chemical Reactions
	4. Activity Series of the Elements
1. **Stoichiometry**

A. Definition

* 1. Reaction Stoichiometry Problems and Calculations
	2. Limiting Reactants and Percent Yield
1. **Physical Characteristics of Gases**
	1. Properties of Gases
	2. Kinetic Molecular Theory of Gases
	3. Qualitative and Quantitative Description of Gases
2. **Liquids and Solids**

A. Properties of Liquids

* 1. Kinetic Molecular Theory of Liquids
	2. Changes in State of Liquids
	3. Properties of Solids
	4. Kinetic Molecular Theory of Solids
	5. Changes in State of Solids
	6. Types of Solids
1. **Solutions**
	1. Types of Mixtures
	2. Solutions
	3. Colligative Properties
2. **Acids, Bases, and Salts**
	1. Theories of Ionization and Dissociation of Electrolytes
	2. Acids
	3. Bases
	4. Salts
	5. Concentration of Acids and Bases
	6. PH
	7. Titrations
3. **Reaction Energy and Kinetics**
	1. Chemical Kinetics
	2. Thermodynamics
	3. Driving Force of Reactions
4. **Chemical Equilibrium**
	1. Nature of Chemical Equilibrium
	2. Shifting Equilibrium
	3. Equilibrium Constants
5. **Oxidation-Reduction Reactions**

A. Nature of Oxidation and Reduction

* 1. Balancing Redox Reactions
	2. Electrochemistry
1. **Organic Chemistry**
	1. Nature of Organic Compounds
	2. Hydrocarbons
	3. Substituted Hydrocarbons
	4. IUPAC Naming System of Hydrocarbons and Substituted Hydrocarbons