Chemistry Syllabus

Course Description:
This course is designed for those students who want a physical science class that is both practical and theoretical. The course of study is designed to cover the basic concepts of chemistry on a descriptive and quantitative level. Laboratory activities will be used to illustrate the important ideas. This course is designed to equip students with the background to understand how chemistry fits into everyday living.

Alignment to the Iowa Core Curriculum:
Understands and applies knowledge of: the structure of atoms, the structure and properties of matter, chemical reactions, conservation of energy, and interactions of energy and matter.

Standards:
- Understand and apply knowledge of the structure of atoms.
- Understand and apply knowledge of the structure and properties of matter.
- Understand and apply knowledge of chemical reactions.
- Understand and apply knowledge of conservation of energy and increase in disorder.
- Understand and apply knowledge of interactions of energy and matter.

Assessment:
Formative—group discussion and homework
Summative—tests, quizzes, and lab reports

Content:
- Observations, Measurements and Calculations
- Atomic Structure
- Electrons and Periodic Behavior
- Chemical Bonding and Molecular Structure
- Conservation of Mass and Stoichiometry
- Gases and Gas Laws
- Solids, Liquids, and Solutions
- Kinetics and Thermodynamics
- Acid-Base Titration and pH

Instructional Strategies:
- Large group and small Group discussions
- Lab experiments

Resources:
Text: Chemistry by Wilbraham, Staley, Matta and Waterman
Website: http://chemistrygates.weebly.com

Mr. Gates reserves the right to make changes to the structure of the class and the corresponding syllabus with the understanding that students will be notified if any changes should occur and the online copy will be updated accordingly.
Academic/Behavioral Expectations:

- Students are expected to be in the classroom when the bell rings. Repeated unexcused tardies will result in a detention.
- Assignments are expected to be completed on time. Late work will be accepted for a 50% deduction.
- In the case of an absence: all PowerPoints will be available on my website and will be up to date with any changes, thus students will be expected to have read through the power points covering any day they were late and come see Mr. Gates at the beginning of class the day they return. Any assignments will be accepted without a deduction if the absence is excused otherwise see above.
- During laboratory experiments, students are expected to follow the safety guidelines stated in the Dubuque Community District—Science Student Safety Contract.
- At the end of the second semester students will take a standardized exam. This exam will be taken by all chemistry students in all chemistry classes across the district. This exam will count as the second semester final exam.

Grading Plan:
Your grade will be determined by taking the total number of points you earn and divide that number by the total number of points possible. Points will be earned through quizzes, unit tests, semester tests, lab reports and various projects and/or activities.

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<tr>
<th>Grade</th>
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<tr>
<td>A</td>
<td>93-100</td>
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<td>A-</td>
<td>90-92</td>
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<td>B+</td>
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<td>D-</td>
<td>60-62</td>
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<td>F</td>
<td>Below 60</td>
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Yes, as students will notice, homework is not graded. I will be checking for completion each day to ensure that students have finished the assignments and it is still expected that students will have the homework completed for each day.

Communication Plan:
Mr. Anthony Gates  
agates@dbqschools.org  
School Ext. 552-5632

Grades will be posted on Power School and additional materials can be found at http://chemistrygates.weebly.com

I have a preparatory period during 1st hour, B-lunch and will be available before and after school most days if students have questions or would like some extra help. I have no problem scheduling a meeting to help students during these times and strongly encourage students to do so.

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