

# Chemistry 1

Syllabus for 2008

<b>Instructor</b>	Mr. Jay Reimer
<b>Room</b>	309
<b>Block</b>	D, F and B (Sheltered)
<b>Course Code</b>	04622101/2 and 04623101
<b>Textbook</b>	Chemistry – Matter and Change (Glencoe; McGraw/Hill)
<b>E-mail</b>	<a href="mailto:jay.reimer@gsis.sc.kr">jay.reimer@gsis.sc.kr</a> and <a href="mailto:jay.reimer@gmail.com">jay.reimer@gmail.com</a>
<b>Description</b>	This course is an introduction to understanding the nature of matter and the processes of how it changes. Emphasis will be on quantitative manipulation of formula, laboratory technique and safety as well as problem solving and analysis. The chemistry course provides content to develop significant chemistry concepts and enables students to relate them to real-world applications. Students are encouraged to question, to reason, and to analyze.
<b>Assessed and Graded Activities</b>	Data for formative and summative grades will primarily come from assignments, lab reports, work sheets and lab performance. In addition, a non-academic grade that describes (1) personal organization (including handing in work on time), (2) using class time for learning and (3) working safely in the lab, will be regularly reported to parents.
<b>Formative vs. Summative Assessments</b>	Formative assessments, from activities such as homework, quizzes, process, teacher observation, class work, reading logs, journals, etc., will comprise 30% of the grade. Data from summative assessments, normally given at the end of a unit, will comprise 70% of a student's grade.
<b>Project /Lab Report Grading</b>	Grade for projects and lab reports will come from rubrics provided to the student; in advance of the assessment if possible. Projects and lab reports will have assessments for categories such as: planning, data collection/calculation /analysis/presentation, personal engagement skills related to working in the classroom laboratory environment. The rubrics used in this course will be based on the rubrics proved by the IB for the Middle Years Program. The IB rubrics will be adjusted to meet the Standards and Benchmarks for the GSIS chemistry course.
<b>Behavior Policies</b>	Refer to the GSIS Handbook & Planner for policies related to absences, cheating, etc., and accompanying discipline procedures. Tardies: On your <u>third</u> tardy you will be given detention and every tardy thereafter. On your <u>fifth</u> tardy you will asked to a meeting with your parent to discuss the difficulty you are having arriving in class on time.

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<b>Late Work</b>	<p>Daily assignments are due at the beginning of the next class period. Lab report due dates will be established by the teacher when lab work is completed. If work is not handed in by the time the teacher returns marked material the result will be a 0%.</p> <p>Students will lose one letter per day (not counting weekends) for a maximum of four days. A "No Mark" grade (0 – 60%) will be given after four days, depending on the evidence the teacher has of accomplishments related to the assignment.</p>		
<b>Course Topics</b>	<p>The GISIS Chemistry standards and benchmarks is available on Google Docs and will be shared with all students by the first day of class. Note that modifications to standards may be made, but the main structure will be unchanged.</p>		
	<b>Week</b>	<b>Chapter</b>	<b>Topics</b>
	1 - 3	1, 3	Introduction to chemistry and properties and changes of matter.
	4 – 7	4, 6, 7	Elements and characteristics and organization of the periodic table.
	8 - 14	4, 6, 7	Bonding and nomenclature (naming)
	15 - 16	10.1 -10.2	Formulas and compound names
	17 –18	Unit 5	Acids & bases

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<b>Grade Data Breakdown by Assessment Criteria</b>	<p>Data for Scientific Knowledge/Concepts; Communication and One World criteria will come from tests, quizzes and homework.</p> <p><b>Communication</b> is an assessment of the student's ability to express their scientific knowledge in writing. Proficient grammar, selection of scientific and grade level appropriate vocabulary and organization of content are aspects of this assessment.</p> <p><b>Scientific Enquiry</b> is assessed from lab reports and experiments. This includes the ability to state a problem or idea in a form which can be tested by an experiment; developing a suitable hypothesis; determining and controlling key variables; planning an appropriate experiment, evaluating the sources of error and recommendations of further investigations.</p> <p><b>Processing Data</b> will be assessed on lab reports. Students are assessed on their ability to organize qualitative and quantitative data, to transform data from a variety of sources by numerical calculation or into diagrammatic form, and to draw and explain appropriate conclusions.</p> <p><b>Performance in Experiments</b> will be assessed during the lab experiment. This criterion focuses on the basic skills required for successful practical work, including the importance of safety and cooperation in the laboratory, and the development of manipulative and observational skills.</p> <p><b>One World</b> assessments are taken primarily from test questions and lab report sections related to the student's understanding of: a) the interactions in today's world between scientific and societal issues; b) the contribution and limitations of science; c) the ways in which science is applied, including environmental, health, ethical and moral considerations.</p>
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