Chemistry 1 IB/Honors Syllabus **Teacher: Mrs. J. Fisher**
2011 – 12

COURSE DESCRIPTION:

This IB course is designed to provide students with a background of chemistry. The central theme that the properties of matter are a consequence of its structure will be presented to strengthen analytical and critical thinking skills essential to the IB curriculum. Attention will be given to expanding lab skills, enhancing technical writing, applying math skills, and utilizing technology. Units covered through the year will include:

Matter and Change
Measurements and Calculations
Atoms: The Building Blocks of Matter
Nuclear Chemistry
Arrangements of Electrons in Atoms
The Periodic Law
Chemical Bonding
Chemical Formulas and Chemical Compounds
Chemical Equations and Reactions
Stoichiometry
Physical Characteristics of Gases
Molecular Composition of Gases
Liquids and Solids
Solutions
Ions in Aqueous Solutions and Colligative Properties
Acids and Bases
Acid-Base Titration and pH
Carbon and Hydrocarbons
Other Organic Compounds

COURSE REQUIREMENTS AND MATERIALS:

The general method of teaching will be a combination of lectures with note taking, demonstrations, laboratory investigations, videos, and class discussions.

A textbook (Modern Chemistry by Holt) will be provided.

Students will need to purchase a binder or notebook, loose-leaf paper, lab notebook (Mead five star one subject college ruled notebook), lab folder, graph paper, metric ruler, colored pencils, blue or black pens, pencils, and scientific calculator. They need to replace items as necessary during the year.

LABORATORY INVESTIGATIONS:

All science classrooms are scientific laboratories. A laboratory is a place where scientific investigations and experiments are done. As you study science, you will be carrying out such investigations using equipment and materials that can harm you if not used correctly. Everyone who works in a science laboratory must learn the skills necessary to make it a safe place. Students are expected to read and follow safety guidelines. Parents and students will be required to sign a lab safety agreement. Prior to any lab investigations, students will be expected to have read the procedures and understand the necessary safety precautions.

ASSIGNMENTS:

Daily assignments will be given including: reading, text questions, outside research on current topics, lab reports, and preparing for tests.

Assignments will be posted on the MPS website at: www.mpshome.com

Students are responsible for handing in assignments on the date they are due at the beginning of class. It is the student's responsibility to seek out the teacher if there are any questions concerning the assignment. **Late assignments will lose 25% of the total grade per day (*not class*) and must be handed to the teacher directly.** No credit will be given once the assignment has been returned and reviewed by the class.

Students who are absent are expected to see the teacher the day they return to school to discuss missed class material, obtain new assignments and turn in assignments that are due. If the absence causes the student to miss a test, the parents are asked to inform the attendance secretary when calling the school that they are aware their child is missing a test. **Make-up tests and labs will be given after school on the day the student returns to receive full credit.**

GRADING:

Student achievement will be based on these factors: tests, quizzes, lab reports, homework assignments. Students will be expected to keep track of their grades so they may continually evaluate their progress and parents/students should regularly check their grades on power teacher. The final assessment will be given in two parts; one exam in January and one exam in June.

Students are requested to save all work that has been submitted and graded until course is complete.

CLASSROOM DISCIPLINE:

Students will be expected to conduct themselves in accordance with the policies stated in the student handbook.

HELP SESSIONS / CONTACTS:

Extra help is available daily after school or as prearranged with the teacher.

Contacting the teacher can be done through e-mail at: jfisher@mpslakers.com or by calling the school.

I have read this syllabus: _____
(student - date)

We (I), the parent(s)/guardian(s) have read this course syllabus:

_____
[parent(s)/guardian(s) - date]