PRE-AP CHEMISTRY - FALL 2025

Teacher Name: Ashley Horne Teacher Email: ahorne@madisoncity.k12.al.us

Course Description:

This is an accelerated course designed to prepare students for success in Advanced Placement Chemistry. This class is designed to foster independent learning, good study habits, and critical thinking. This course involves a great deal of mathematical thinking and problem solving. Students are expected to do a great deal of independent study and come to class prepared to discuss, practice and ask questions.

Course Objectives: Students will:
• Differentiate among pure substances, mixtures, elements, and compounds. Identify structures of covalent and ionic compounds.
• Use the periodic table to identify periodic trends, including atomic radii, ionization energy, electronegativity, and energy levels.
• Describe solubility in terms of energy changes associated with the solution process.
• Use the kinetic theory to explain states of matter, phase changes, solubility, and chemical reactions.
• Solve stoichiometric problems involving relationships among number of particles, moles, and masses of reactants and products in a chemical reaction.
• Explain the behavior of ideal gasses in terms of pressure, volume, temperature, and number of particles.
• Distinguish among endothermic and exothermic physical and chemical changes.

Classroom Management Plan:

Classroom Management Plan

- Verbal reprimand
- Conference with student with parent contact
- Withdrawal of privilege(s) with parent contact
- Other consequences determined to be reasonable and appropriate by the school administration.

Cell Phones

Please refer to the Madison City Schools Code of Student Conduct and Madison City Schools policy manual concerning wireless communication devices.

Technology Use in the Classroom:

If technology is needed in the classroom, then **school issued Chromebooks must be used.**

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Grading Policy:

Test grades will account for 70% of the 9-weeks grade, with the remaining 30% being determined by quiz/daily grades. The grading scale is as follows: A (90-100%), B (80-89), C (70-79), D (65-69), and F (below 65). Grades will be a reflection of mastery of the standards. Make sure all absences are excused as class work can be made up and graded for excused absences only. The final exam counts for 20% of the final grade.

Make-up Work Policy:

This course will follow the MCS Code of Conduct for make-up work. Make-up test time is once per week on a day determined by the instructor.

Texts and Other Required Reading:

Text: *Introductory Chemistry: A Foundation*, Zumdahl and DeCoste, 2015

Materials and Supplies Needed:

Each student will need the following individual supplies:
1. 1 or 2 in binder
2. Writing utensil (Pencils are preferred but pens are allowed)
3. Scientific calculator (This is extremely important. A graphing calculator can also be used if you already have one.)
4. Madison City Laptop. Several assignments require the use of AP Classroom which is accessed in class using a device.

If you are interested in donating supplies to the classroom, we are always in need of hand soap, tissues, and paper towels.

Laptops

Concerning laptop utilization: 1.Student laptops should not be hard-wired to the network or have print capabilities. 2. Use of discs, flash drives, jump drives, or other USB devices will not be allowed on Madison City computers. 3. Neither the teacher, nor the school is responsible for broken, stolen, or lost laptops. 4. Laptops and other electronic devices will be used at the individual discretion of the teacher.

Accommodations

Requests for accommodations for this course or any school event are welcomed from students and parents.

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18 - WEEK PLAN*	
WEEK 1	**Safety, Classification and Investigation of Matter**
WEEK 2	**Investigation of Matter/Units of Measure, Accuracy, Precision and Dimensional Analysis**
WEEK 3	**Relating Mass and Volume**
WEEK 4	**Heat Transfer and Temperature**
WEEK 5	**Heating Curves and Phase Diagrams**
WEEK 6	**Gas Laws**
WEEK 7	**Atoms and Molecular Structure**
WEEK 8	**Intermolecular Forces**
WEEK 9	**Isotopes and Electron Configuration**
WEEK 10	**Periodic Trends and Bonding**
WEEK 11	**Empirical and Molecular Formulas**
WEEK 12	**Stoichiometry**
WEEK 13	**Chemical Quantities**
WEEK 14	**Molarity and Solutions**
WEEK 15	**Types of Chemical Reactions and Titrations**
WEEK 16	**Endothermic and Exothermic Reactions**
WEEK 17	**Equilibrium Reactions**
WEEK 18	**Review**

*** This syllabus serves as a guide for both the teacher and student; however, during the term it may become necessary to make additions, deletions or substitutions.**

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Dear Parent/Guardian,

I look forward to having a great year! I feel fortunate to have your learner in my class this semester and hope that you will contact me should you have any concerns. With your learner, please read the policies above that go with this form, then sign and date this signature page and return this form as soon as possible. It is going to be a GREAT semester!

Thank you,
Ashley Horne

Please sign below to acknowledge that you have received, read, and understood the syllabus.

Student name: _____

Student signature: _____

Parent/guardian name: _____

Parent/guardian signature: _____

Parent/guardian, please provide two ways for me to contact you (email address, phone numbers):

Parent/guardian Email:

_____

Parent/Guardian Phone number:

_____