



**Course Syllabus**  
**Pre-AP Chemistry**  
**Instructor: Mrs. Laura Phillips**

**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.
- ▲ Describe the structure of carbon chains, branched chains, and rings.
- ▲ 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 gases in terms of pressure, volume, temperature, and number of particles.
- ▲ Distinguish among endothermic and exothermic physical and chemical changes.
- ▲ Distinguish between chemical and nuclear reactions.

**Classroom Rules and Expectations:**

**General:** Students are expected to come to class fully prepared to participate in and contribute to the scheduled activities and to adhere to the following:

1. **Be ready** for class each day.
2. **Be respectful** of yourself, others, the teacher, and the classroom.
3. **Be responsible** for your own attitude, actions, and assignments

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

**Concerning Laptop Utilization:** 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.

**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.

## James Clemens High School

11306 County Line Road  
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**Missed Assignments:** If you are present in class but do not turn in an assignment by the due date, I will put a 0 in the gradebook. You are allowed to turn in assignments late; however, 20% of the grade will be deducted for being late. **Excused** absences will be granted 3 days to complete and turn in any missed assignments. After 3 days, the assignment will be counted as late unless extenuating circumstances are discussed with me. Assignments missed due to an **unexcused** absence will be given a 0 in accordance to Madison City Schools policy. Please make sure to turn in an excuse for every absence within 3 days!

### Make-Up Work Policy:

Make-up tests are only allowed for excused absences. Students with excused absences should make arrangements with Mrs. Phillips to take any missed assessments. All makeup work can be found on Schoology.

### Course Materials:

Each student will need the following individual supplies:

1. 1 or 2 in binder
2. Notebook paper
3. Writing utensil (Pencils are preferred but pens are allowed)
4. Scientific calculator (This is extremely important. A graphing calculator can also be used if you already have one.)
5. Madison City Laptop. Several assignments require the use of AP Classroom which is accessed in class using a device. Please let me know if you do not have any type of device to bring to school.

If you are interested in **donating supplies** to the classroom, we are always in need of hand soap, dish soap, dry erase markers, copy paper and facial tissue. Any supplies brought in can earn tickets for classroom rewards.

### Texts/Required Readings:

Introductory Chemistry: A Foundation, Zumdahl and DeCoste, 2015

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## Course Syllabus Pre-AP Chemistry

### 18 - WEEK PLAN\*

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<b>WEEK 1</b>	Lab Safety and States of Matter
<b>WEEK 2</b>	Precision, Accuracy, and Confidence in Measurement
<b>WEEK 3</b>	Relating Mass and Volume
<b>WEEK 4</b>	Heat Transfer and Temperature
<b>WEEK 5</b>	Heating Curves and Phase Diagrams
<b>WEEK 6</b>	Gas Laws
<b>WEEK 7</b>	Atoms and Molecular Structure
<b>WEEK 8</b>	Intermolecular Forces
<b>WEEK 9</b>	Isotopes and Electron Configuration
<b>WEEK 10</b>	Periodic Trends and Bonding
<b>WEEK 11</b>	Empirical and Molecular Formulas
<b>WEEK 12</b>	Stoichiometry and Chemical Quantities
<b>WEEK 13</b>	Chemical Quantities
<b>WEEK 14</b>	Molarity and Solutions
<b>WEEK 15</b>	Types of Chemical Reactions and Titrations
<b>WEEK 16</b>	Endothermic and Exothermic Reactions
<b>WEEK 17</b>	Equilibrium Reactions
<b>WEEK 18</b>	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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## Course Syllabus Pre-AP Chemistry

Dear Parent/Guardian,

I am very excited to begin this class. Science has always been my favorite subject, and I hope I can make this class fun for your student as well! I am looking forward to getting to know your child this semester and hope that you will contact me should you have any concerns about their progress. Please sign and date this page and upload it to Schoology by Friday.

Looking forward to a great year!

**Laura Phillips**

[lphillips@madisoncity.k12.al.us](mailto:lphillips@madisoncity.k12.al.us)

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### Parent/Guardian Contact Information:

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Email: \_\_\_\_\_

### Syllabus Affirmation:

Signing below indicates that you have read the syllabus and agree to all policies and procedures found therein. Please contact the instructor with any questions or concerns.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Please check this box if your student needs financial assistance purchasing the required school supplies.

**Last thing:** Is there any additional information about your student that might be helpful to know as I strive to serve them well as a teacher this semester? Feel free to share below or send me an email. (I really will read what you say and try to apply it as best I can.)

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