

# CHEMISTRY I

## Course Syllabus

Bob Jones High School  
650 Hughes Road  
Madison, AL 35758



Teacher: Ms. Cynthia F. Holden  
Email: cholden@madisoncity.k12.al.us  
Phone: 256-772-2547 ext. 80230

### I. Course Description:

Chemistry is the science of matter & how it behaves. We will explore the laws of chemistry which govern the behavior of matter & energy. Students will gain knowledge about measurements, chemical formula writing, quantitative theory, chemical reactions, stoichiometry, the periodic table and chemical bonding. Problem solving and technical writing are important facets of this course. Labs and activities will reinforce material covered in lecture. The intent of this course is to prepare students for college level chemistry and continued study in science.

### II. Course Requirements

- The student must have scored an A or B in Algebra I.
- The student is responsible for all text materials & lecture notes.

### III. 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.

### IV. Classroom Expectations:

1. Be in your seat and ready to begin when the bell rings.
2. Bring all needed materials to class (books, notebook, paper, pencil, etc.) We will work EVERY day. Therefore, it is imperative that each student bring all needed supplies each day.
3. Speak at appropriate times using appropriate language & voices. It is extremely important that we respect those who have the floor. If you have a comment or question, please raise your hand to be recognized.
4. Be respectful of others & their property!
5. Do not bring food or drink into the classroom or lab.
6. Go to the restroom between classes & other allotted breaks.
7. Dismissal will occur at the end of the period by the instructor.
8. Do not leave your seats for any reason without permission from the instructor.
9. Obey all school rules.

#### Consequences for Violations of Classroom/School Rules:

- First Offense: Verbal Warning
- Second Offense: After School Detention/Parent or guardian called
- Third Offense: Discipline Referral

*\*Severe disruptions or offensive behavior will not be tolerated! Students will be sent immediately to a school administrator.*

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### V. Student Expectations:

- Students must keep a list of their own grades.
- Students will receive earned grade. Student or parents should not ask for additional points.
- There will be no extra credit assignments i.e. reports, etc. There may be bonus points on tests or daily activities.
- Students are responsible for bringing their materials to class daily (text, notebook, calculator, pen/pencil)
- Students that receive failing grades during the course are urged to consult the teacher.

### VI. BJ Grading Policy:

Grades will be calculated according to BJHS policy:

90%-100%=A  
80%-89%=B  
70%-79%=C  
65%-69%=D  
64% and below= F

Major tests/projects..... 70%  
(including regular tests, vocabulary tests, essays,  
major presentations, notebook checks, quizzes, other)

Daily Grades..... 30%  
(daily work, homework, quizzes/pop quizzes, group assignments, special  
projects, lab assignments, reading checks, computer~based assignments, other)

Final Exam (Comprehensive).....20% of entire  
grade

### VII. BJ Make-up Test Policy:

- Tests due to excused absences must be made up within 2 weeks. After the time has elapsed, you will receive a zero. Make-up tests will not be given for unexcused absences. Make-up tests are administered during Patriot Path on scheduled days in designated science room. Students are responsible for signing up for Patriot Path & obtaining a pass from the teacher before the make-up date.
- If you are absent for a school sponsored activity, you are responsible for turning in your assignment upon your return.
- It is the student's responsibility to make up all missed tests and all assignments.
- Students are responsible for checking Google Classroom & the "While You Were Out Folders" for missed assignments in the student resource section of the room. Check this area for missed assignments & lesson plans.
- Find a student partner to call when you are absent.
- Additionally, students will keep a log of all assignments in their notebooks.

### VIII. Text and Other Required Reading:

World of Chemistry, Zumdahl, Zumdahl & DeCoste, 2006

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### IX. Materials and Supplies Needed:

- 1 -1 1/2" binder with dividers. This notebook will be used for this class only.
- Lose leaf paper.
- Pens/Pencils (blue/black ink only)
- #2 pencils w/eraser. You may take notes in pen, but all test & problems must be done in pencil.
- Scientific calculator is **required!** Each student must bring their personal calculator to class daily.
- Textbook
- Chemistry I Laboratory Manual must be purchased for a fee of \$10.
- 1 roll of paper towels.
- 1 ream of paper (white )

Special Note to Parents: The Chemistry Department is requesting a \$20 donation towards needed supplies. Although this donation is optional, it would be greatly appreciated and would allow additional enhancement of your child's education.

### X. Homework/ Classwork:

- Assignments will be taken up & checked daily. Assignments will be checked for neatness, completeness, & correctness.
- It is imperative to complete homework and daily assignments. Many of the concepts taught are fundamental to understanding more complex ideas in subsequent lessons.
- All work must be done in "your own handwriting". Xeroxed work will not be accepted.
- Notebook assignments must be given a title at the top of the page, page #, & problem set. (Example: Chapter 1 Review Questions pg.14 #s 1-15)
- Missed assignments due to absence must be completed within 2 days. The student is responsible for completing and turning in the assignment to the teacher.

### XI. Tardiness:

- Students should be seated and working on bell activity when the bell rings.
- If the bell rings when you are entering the room, you will sign a tardiness form and receive detention the following day.
- If you are detained in another class by a teacher, simply bring a note from that teacher, to prevent excuse the tardy.

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### **X. Rules for Personal Laptop Usage in the Classroom:**

1. Under no circumstances are student laptops to be wired to the network.
2. Students may not print from their laptops.
3. Laptops in the classrooms will be used for taking notes, research, word processing, and creation of materials for projects
4. Neither the teacher, nor the school is responsible for broken, stolen, or lost laptops
5. If you are asked by the teacher to put away your laptop, please do so- just as you may be asked to put away something else that is distracting or inappropriate.
6. Laptops will remain in the student's bag until instructor grants permission for student to open and operate it.
7. Headphones are not to be used with laptops during class unless approved by the instructor.

### **Additionally,**

- The academic misconduct policy of the school will be followed in this course.
- The attendance policy of the school will be followed for this course.
- All requests for accommodations, for this course or any school event, are welcomed from students and parents.

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<b>18 – WEEK PLAN</b>	
<b>Week 1</b>	Intro to Chemistry (Lab Safety)
<b>Week 2</b>	Classification and Investigation of Matter
<b>Week 3</b>	Measurements and Calculations
<b>Week 4</b>	Atomic Structure/Periodic Table
<b>Week 5</b>	Arrangement of Electrons in Atoms/Electron Configurations
<b>Week 6</b>	Chemical Bonding
<b>Week 7</b>	Chemical Formulas and Compounds
<b>Week 8</b>	Chemical Formulas and Compounds
<b>Week 9</b>	Chemical Reactions and Equations
<b>Week 10</b>	Chemical Reactions and Equations
<b>Week 11</b>	Chemical Measurements (Mole Concept)
<b>Week 12</b>	Stoichiometry
<b>Week 13</b>	Stoichiometry
<b>Week 14</b>	Gases
<b>Week 15</b>	Gases
<b>Week 16</b>	Solutions
<b>Week 17</b>	Acids & Bases
<b>Week 18</b>	Thermodynamics/Rates of RXNs <b><i>Review &amp; Final Examination (Comprehensive!!!)</i></b>

\* The course outline is tentative. Dates are subject to change.

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\*\*\*\*\*Detach & Return Signed\*\*\*\*\*

Student's Name \_\_\_\_\_ Grade \_\_\_\_\_

Parent's Name \_\_\_\_\_

Daytime Number \_\_\_\_\_ Cell Number: \_\_\_\_\_

Parent's Email Address \_\_\_\_\_

### \*\* Email Address

Parents, please provide an accurate email address that you check regularly. A distribution list will be set up, so that email updates may be distributed.

### \*\*\*Google Classroom/OWL Online Web Learning :

Google Classroom is an on-line technology tool used to disseminate information & facilitate information delivery to the student. Due to the lack of funding, many of the assignments/handouts will be downloaded from Goggle Classroom by the student.

To prepare for this, please indicate your home technology accessibility.

### \*\*\*\* Remind 101

Remind 101 is a website that provides a safe way for teachers to text message or email students and parents.

Internet Access: \_\_\_\_\_ Yes \_\_\_\_\_ No

Print Capability: \_\_\_\_\_ Yes \_\_\_\_\_ No

Texting Capability: \_\_\_\_\_ Yes \_\_\_\_\_ No

### \*\*\*\*\* Laboratory Information:

Allergic Reactions: \_\_\_\_\_ Yes \_\_\_\_\_ No

If so, please list specific Allergies/:

\_\_\_\_\_

List any medical conditions of which teacher should be aware: \_\_\_\_\_

\_\_\_\_\_

Do you wear contact lenses? \_\_\_\_\_ Yes \_\_\_\_\_ No

Are you color blind? \_\_\_\_\_ Yes \_\_\_\_\_ No

I \_\_\_\_\_, acknowledge that I have received/printed a copy of Ms. Holden's course syllabus &  
Student's Name (Print Please)

Laboratory contract for Chemistry I (\_\_\_\_\_ - \_\_\_\_\_ academic school year). I understand these rules and expectations and agree to abide by them.

\_\_\_\_\_  
Parent's Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Student's Signature

\_\_\_\_\_  
Date Page 7