James Clemens High School 11306 County Line Road rehenson@madisoncity.k12.a Madison, AL 35756		l.us	Teacher: Email: Phone:	Rachael Henson 256-216-5313
I.	Course Description:	This course surveys concepts taught in chemistry and physics, requires basic math skills, prepares the student for continued study in science, and meets the physical science graduation requirement. This course is recommended for students going through Algebra 1A and 1B to help better prepare them for Chemistry.		
11.	Course Objectives:	<ul> <li>Students will:</li> <li>Use the periodic table as a model to predict properties and trends of main group elements based on patterns of valence electrons.</li> <li>Identify the relationship that exist among pressure, volume, density, and temperature of a confined gas.</li> <li>Determine the role of electrons in chemical bonding and interpret chemical equations.</li> <li>Analyze data using acid-base indicators to distinguish between acids and bases, including comparisons between strong and weak acids and bases</li> <li>Develop models to illustrate the concept of half-life for radioactive decay.</li> <li>Analyze and interpret basic motion graphs including displacement, velocity, and acceleration.</li> <li>Discuss the motion of a system by applying Newton's Laws</li> <li>Design models to demonstrate simple circuits.</li> <li>Discuss the conservation and transformation of energy.</li> </ul>		
<i>III.</i>	Classroom Expectations:	<ol> <li>Be respectful. Practice courter would like to be treated. The as a safe and supportive learn</li> <li>Attend class and be on time Tardy means that you are no <u>JCHS policy governs the constant</u>.</li> <li>Participate and act in a profest</li> <li>Help provide an excellent lear be productive.</li> <li>Keep cell phones / devices productive.</li> <li>Keep cell phones / devices productive.</li> <li>Requests for accommodations for this from students and parents.</li> <li>Concerning laptop utilization:</li> <li>Student laptops should not be hard</li> </ol>	classroom and laboratory a ning environment. a. Come prepared to learn it in the room and seated w <u>sequences for tardiness</u> . ssional manner. rning environment, where e out away and turned off thr ed by the teacher. s course or any school ever	are to be regarded with all materials. when the bell rings. everyone is able to oughout the entire nt are welcomed

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.

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IV.	Grading Policy:	Grades are calculated according to MCBOE/JCHS policy. Tests and projects are weighted 70% and all other assessments are weighted 30% of the 9-weeks scores. Each 9-week score contributes 40% of the final grade for the course and the comprehensive final exam counts 20%. 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 missed work can be made up and graded for excused absences only.			
V.	Make-up Test Policy:	Make-up tests for <b>excused</b> absences will be given as arranged with the teacher. Students have 3 school days following a missed test to reschedule the test. <u>Failure</u> to keep an appointment for a makeup test will result in a zero. Make-up work for excused absences should be turned in within three days. If a student is missing an assignment, but was not absent, they must complete and submit the missing assignment sheet. If done correctly, a late assignment may be be turned in for a grade if the assignment answers have not been given yet; however, the maximum grade a late assignment can earn is 75% of the original.			
VI.	Text and Other Required Reading:	Foundations of Physical Science, 3rd edition. Tom Hsu, CPO Science, 2013.			
VII.	<i>Materials and Supplies Needed:</i>	<ul> <li>Notebooks (1-2)</li> <li>Pencils / Pens</li> <li>Scientific calculator (or any</li> <li>Scotch tape / glue (multiple)</li> <li>1 roll of paper towels</li> <li>(If desired) 1 box of tissues</li> </ul>		-root function)	

Dear Parent/Guardian,

I look forward to having a great year! I feel fortunate to have your son/daughter in my class this semester and hope that you will contact me should you have any concerns about the progress of your son/daughter or any aspect of the instruction. I would also like to encourage you to frequently check iNow because it is one of the best ways to stay current with your son or daughter's progress. Please read the attached policies with your son/daughter, then sign and date this signature page, and have your son/daughter return this form. Please provide a current email address and phone number at which I can contact you should the need arise. Please contact me at school with any concerns.

Thank you, Rachael Henson Physical Science and Astronomy Teacher James Clemens High School

James Clemens High School 11306 County Line Road rehenson@madisoncity.k12.al.us Madison, AL 35756 Teacher: Email:

Phone:

Rachael Henson

256-216-5313

18 – WEEK PLAN*				
Week 1	Lab Safety, Scientific Method, Measurement			
Week 2	Scientific Method, Measurement, States of Matter			
Week 3	States of Matter, Trends and Properties of the Periodic Table			
Week 4	Trends and Properties of the Periodic Table			
Week 5	Periodic Table and Chemical Bonding			
Week 6	Chemical Bonding and Nomenclature			
Week 7	Types of Chemical Reactions and Conservation of Mass			
Week 8	Acids and Bases			
Week 9	Radioactivity and Radioactive Decay			
Week 10	Motion and Forces			
Week 11	Forces and Newton's Laws			
Week 12	Newton's Laws and Momentum			
Week 13	Energy and Simple Machines, Work and Power			
Week 14	Conservation of Energy			
Week 15	Electricity and Circuits			
Week 16	Energy and Waves			
Week 17	Energy and Waves, Electromagnetic Radiation			
Week 18	Electromagnetic Radiation and Sonar			

<sup>\*</sup> The 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. Adequate notice will be provided to students of any necessary changes.

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My child and I have read and discussed the classroom syllabus.

Student Name (Print)	Date	
Student Signature	Date	
Student Email Address		
Parent/Guardian Name (Print)	Date	
Parent/Guardian Signature	Date	
Parent/Guardian Email Address		
Parent/Guardian Phone Number	(w)	(c)