**Chemistry**

**Teacher: Mrs. Sarenia Johnson**

**Course Syllabus 2021-2022**

**Course Description and Objectives**

COURSE DESCRIPTION Students explore the fundamental principles of chemistry which characterize the properties of matter and how it reacts. Computer-based and traditional laboratory techniques are used to obtain, organize and analyze data. Conclusions are developed using both qualitative and quantitative procedures. Course topics include, but are not limited to: measurement, atomic structure, electron configuration, the periodic table bonding, gas laws, properties of liquids and solids, solutions, stoichiometry, reactions, kinetics, equilibrium, acids and bases, and nuclear chemistry.

Georgia Standards of Excellence for Chemistry

<https://tinyurl.com/k9jwcwrf>

**Unit/Concept Names**

**First Semester**

Unit 0: Think Like a Scientist

Unit 1:  Classification of Matter

Unit 2:  Atomic Theory and Periodicity

Unit 3:  Chemical Bonding & Nomenclature

Unit 4:  Chemical Reactions

**Second Semester**

Unit 5:  The Mole & Stoichiometry

Unit 6:  Solutions, Acids & Bases

Unit 7: Chemical Thermodynamics & Gases

Unit 8: Kinetics & Equilibrium

**Course Assessments/Activities:**

**· Tests:** Students will complete a pre-test to show what they may know before the start of the unit, and a post-test at the end of the unit to demonstrate what they have learned.

**· Projects**: I will frequently make cooperative learning assignments that the student will complete in teams with each member taking a part of a larger task or with all members reaching consensus about the same task. As a rule, when working in teams, each student is required to turn in his own paper. Only one paper will be selected at random for grading. Students may also be assigned long-term individual projects as well (i.e. Science Fair, Brochures, Reports, Presentations).

· **Class Activities:** Students will maintain a Portfolio that will contain daily warm-up questions, notes, vocabulary, and science aids.

**· Quizzes:** Students will complete a quiz and/or formative at the end of each lesson to show their level of progress.

· **Extra Credit:** Students may be given the opportunity to complete extra credit work to enhance their scientific knowledge, and overall grade.

**· Homework:** Students will be assigned homework as needed to further develop their understanding of a topic or as practice at home.

· **Labs:** Students will conduct digital lab activities to discover and understand the Science Units more effectively; lab safety techniques will still be highlighted.

**Late Work Policy**

Assignments such as Projects, and Portfolio will have deadlines. This work must be completed and turned in a timely fashion.

JUST DO IT!

In case of an absence, the work will be due upon the student’s return. Missed tests and quizzes will be scheduled. Please see me, or a peer buddy for any missed work or assignments.

**Evaluation**

* Summative Assessments 30% (Unit & Chapter Test, Projects, Tasks)
* Formative Assessments 70% (Quizzes, Class work, Graded Writing Assignments, Group Work, etc.)

**Classroom Procedures & Expectations**

1. **Be a S.T.A.R. (Student Taking Academic Responsibility).**
YOU are responsible for your education!
YOU determine your success or failure!

2. High expectations – ALL DAY, EVERY DAY!

3. Be PREPARED for each synchronous session with required materials on time every time.

4. Stay focused and stick to the topics.

5. Submit all assignments on time.

6. Adhere to all policies, rules, and regulations outlined in the RCSS student handbook.

7. Remember that you leave a digital footprint, so be careful what you put out there.

**My contact information:**

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