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TRMS-770-740-7090

Textbook: McLaughlin, Charles W., et al. *Glencoe Physical Science*. McGraw Hill Education, 2018.
You will have access to online resources through the Fulton County Launchpad
(<http://launchpad.fultonschools.org>)

Teacher Notebook: You can access my class notebook through Team's class notebook.

COURSE DESCRIPTION: This is a HIGH SCHOOL course and designed as an introduction to the major concepts in chemistry and physics. A grade for the successfully completed high school Physical Science course will be posted on the high school transcript IF parents elect for their child to receive credit. Students who successfully complete this course are eligible to receive honors points as a part of their grade. The course includes concepts such as: structure of atoms, periodic table principles, motion, forces, conservation of matter and energy, gravity, machines, electricity and the behavior of waves. Throughout the year, students will participate in project-based learning experiences. *Project-based inquiry learning* simulates authentic situations that require scientific investigation in order to solve problems or meet challenges.

EOCT: This class has an End of Course Test in May which will cover concepts from the ENTIRE year. The 8th grade students taking this high school course will NOT be required to take the GA Milestones Science test held at the beginning of April.

SCIENCE & ENGINEERING FAIR PROJECT: All Honors Physical Science students will investigate a question in science that relates to chemistry or physics. A majority of this project will be worked on outside of the main classroom. The entire project will be complete by early December and entered into a school competition with the possibility of moving on to the county and state levels. Each stage of the project will be graded individually and weighted individually depending on the task.

OUTCOME EXPECTATIONS: At the end of this course students should be able to:

1. Use appropriate scientific tools to observe, record, organize, analyze, interpret, write, and present the results of scientific investigations clearly and accurately.
2. Explain the current understanding of the structure of the atom and compare ionic with covalent bonds.
3. Use information, calculations, and predications to explain the nature, properties, classification, and conservation of matter.
4. Explain the nature and process involved in radioactive changes.
5. Explain the trends in the Periodic table and use the knowledge to predict the properties of representative elements.
6. Compare and contrast the phases of matter as a result of atomic and molecular motion.
7. Describe the nature of solutions and the factors that affect the solubility of substances.
8. Explain the transformation and flow of energy relative to the heat capacity of different substances.
9. Use calculations to determine the relationships between forces, mass, and motion.
10. Explain the properties of waves and recognize that all waves transfer energy.
11. Explain the nature and production of static electricity and electric currents based on electron movements.
12. Describe the relationships between electricity and magnetism and explain their applications.

COURSE OUTLINE (timeline is approximate-Georgia Performance Standard referenced in parenthesis)

Unit 1:	Atomic Structure and the Periodic Table (SPS1, SPS2, SPS3)	9 Weeks
Unit 2:	Chemical Reactions and Properties of Matter (SPS4, SPS5, SPS6)	8 Weeks
	Review and Final Exam	1 week

GRADING SCHEME:

Fulton Co. Grading Scale will be used:

90% and above	A
80%-89%	B
70%-79%	C
69% and below*	F

***any grade below 70 is failing**

Students assessed on the following:

Major Assessments (Tests, Projects)	50%
Minor Assessments (Quizzes, Labs)	20%
Practice (CW/HW)	10%
Final Exam	20%

FINAL EXAM: The final exam will be comprehensive and cover the concepts of the entire semester

HOMEWORK EXPECTATIONS:

Homework will be assigned in class and based on the depth of the concept(s) we will be covering in class and as an extension of classroom activities.

LABORATORY NOTEBOOK: Labs and activities are an important part of the curriculum. EACH person in the class is responsible for keeping up their own laboratory notebook throughout the semester. The notebook will contain notes, pre-lab write ups, lab data, post-lab reflection questions and more.

PROVISIONS FOR IMPROVING GRADES:

Help sessions: I am available most mornings by appointment. You may also arrange to stay in my room for “productive lunch”

- If a student scores less than a 50 on any given assignment or test, he/she is expected to seek remediation, if appropriate, and redo the assignment or retake the test for reduced credit.
- Opportunities designed to allow students to recover from a low or failing *cumulative grade* will be allowed when all work required to date has been completed and the student has demonstrated a legitimate effort to meet all course requirements including attendance.
- Teachers will determine when and how students with extenuating circumstances may improve their grades.
- **There is no planned extra credit in this class and your lowest test grade is NOT dropped at the end of the semester. It is therefore very important that assigned work is completed and turned in on time. Be prepared and seek help early.**

TEACHER/PARENT COMMUNICATION:

Check my class teams regularly for updates. My preferred method of communication is thru email (abogims@fultonschools.org) Please allow 24 hours for a response and try again if I don't return your email. In addition, face-to-face conferences may be requested to discuss a student's progress or behavior.

ABSENCE MAKE-UP PROCEDURES:

FCBOE POLICY JBD -Upon returning to school following an absence, **it is the student's responsibility to contact the teacher to request make-up work.** Make-up work must be completed by the student within the time specified by the teacher. At Taylor Road Middle School, the student will be given the same amount of time to make up the work as the student was absent unless other arrangements are mutually agreed upon. The student will receive the actual grade on the make-up work if the absence was “excused.”

CLASSROOM PROCEDURES AND EXPECTATIONS:

Learning science is not a spectator sport. Active participation in class is imperative for success. To ensure a proper learning environment in the classroom, teachers expect all students to demonstrate a positive attitude toward learning and follow behavior guidelines. Students are expected to be on-time, prepared for class, respectful of others, and involved in classroom activities. Should a student not follow classroom rules, the teacher will use a pyramid of intervention for behavior. The first offense will be a discussion with the student on the inappropriateness of behavior. If this or other offenses continue, the parent may be contacted. Multiple offenses will result in a public detention.