**Fall 2017**   **Physics Mrs. Susan Ryan**

**Dear Parent or Guardian,**

**Hello, my name is Susan Ryan, and I am your student's Physics teacher. I am looking forward to working with you to ensure outstanding student achievement this term. Please read the attached procedures as they outline my expectations. Feel free to respond with expectations of your own. I intend to make individual responsibility a key component of my class. Your student will be required to experiment and perform in group/individual settings; therefore, attendance is of primary importance. In order for your student to be successful this semester, she/he must complete, and turn in, the required work and participate regularly in class activities.** **In this course we will explore many concepts relating to motion, force, energy, electromagnetism, waves and optics and gain a better understanding of how matter and energy behave in regards to one another and the environment. We will have many opportunities to experience these interactions through demos and labs designed to provide a connection between concept and experience.**

**If you have any questions or concerns, you can contact me directly by my email** **susan.ryan@cobbk12.org** **or send a written message via your child. I will respond back to you as soon as I am able. I keep both my blog and Synergy updated with daily activities and grades so please check these often.**

**Please fill out the information below, sign, and return only this top page with your student.**

**Thank you,**

**Susan Ryan**

**North Cobb Physics Teacher**

***Student Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(printed):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

***Parent/Guardian Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(printed):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

***Parent/Guardian phone numbers:***

***Home\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Work\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Cell\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

***E-mail addresses: Parent\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

***Additional comments/concerns (use back if more space is needed):***

 **Physics Syllabus
*Fall 2017*
*Teacher: Mrs. Ryan Room: 620***

**Required Materials:**  Notebook, loose leaf paper, scientific calculator, something to write with

**Grading Policy:**

Tests/Portfolios: 25%
Homework/Classwork/Quizzes: 30%

Labs/Projects: 30%
Final/SLO 15%

**Classroom Expectations:**1). Students are to be present and ready to learn each day (this includes having necessary materials for class each day).
2). Students are expected to show respect for staff, property, and other students.
3). Students are expected to be active participants in their education. This includes but is not limited to completing and turning in homework/labs on time, participating in large and small group discussions, asking for help, etc.
4). Homework and Classwork will be collected and checked for credit. Homework will mostly involve missed work or completion of work not finished in class.

**Cell Phone Policy:**Students will be allowed to use their smart phones during certain classroom activities as directed by the teacher. During whole class instruction, cell phones must be on the table face down. If a student is using their phone during a non-designated time or using their phone inappropriately during a designated time, they will be required to store their phone in a pre-determined location for the duration of the class. *Continual misuse of phones will result in the student having to serve detention.*

**Academic Honesty:**
Academic dishonesty, also known as cheating, will not be tolerated. If a student has plagiarized, copied, or cheated on any assignment, that student will receive a grade of zero for the assignment and will not be allowed to make up the assignment. In addition, a written referral will be submitted to the students’ administrator.

**Make-Up Policy:**Students are to complete all makeup work within three (3) days following an absence. Long term assignments due on the date of an absence shall be due immediately upon the student’s return.

If a student misses a test or quiz for any absence, the student, will be expected to make it up on the day of their return.

**Remediation Policy:**There will be seven unit tests, and students are allotted *THREE* re-tests for the entire semester. Students must make up this test *within 2 weeks* of taking the exam. These make-ups will occur at a time before or after school scheduled by the teacher and the student at least two days prior to the student making up the assessment. The higher score from the two assessments will count as the final test grade.

**Extra Help:**Extra help will be available every morning starting at 7:30. No appointment is necessary and students are encouraged to come in as soon as they are struggling rather than waiting for an assessment.

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| **Standard/Category** | **Topic(s) Covered** | **Reference Chapters** | **Timeline\*** |
| **Measurement/Graphing Review** | Proper Measurement Techniques, Unit Conversions, and Graphing | 1 | 1 week |
| **Motion/Mechanics** | 1 Dimension Kinematics: Velocity, Acceleration, and Graphing Motion | 2-3 | 2 weeks |
| Forces, Newton’s Laws of Motion, and Universal Gravitation | 4, 7, 9 | 3 weeks |
| Application of Newton’s Laws: Vectors, 2 Dimension Kinematics, Projectiles, Circular Motion, and Momentum | 5-6 | 2 weeks |
| **Energy** | Energy, Work, and Power | 10-11 | 2 weeks |
| **Electromagnetism** | Static Electricity and CircuitsMagnetism and Electromagnetism | 20-23 | 2 weeks |
| 24-26 | 1 week |
| **Waves & Light** | Waves and Sound  | 14-18 | 2 weeks |
| Optics: Mirrors and Lenses | ½ week |
| **Modern Physics** | Atomic Physics, Quantum Effects, and Nuclear Physics | 27 & 30 | 1 week |
| **Cumulative Knowledge****(SLO/FINAL EXAM)** | ALL |  | End of Semester |