

**South Cobb High School**  
**2020 - 2021 Syllabus**  
**Physics**  
**Instructor: Rammon Spann**  
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**770-819-2611 ext. 1403**  
**Room 403**

Welcome to South Cobb High School Physics.

**Course Description:** This course provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Topics include basic concepts of motion, forces, energy, heat, electricity, magnetism, and the structure of matter and the universe. This course will emphasize firsthand observation through laboratory investigations and practical applications and problem solving. Content within this class will provide students with a firm laboratory-based foundation for scientific literacy and for the pursuit of subsequent science courses. The fundamental principles that are studied will require mathematical calculations and comprehensive learning skills.

**Objectives:** At the successful completion of this course the student will be able to:

1. Students will analyze the relationships between force, mass, gravity, and the motion of objects.
2. Evaluate the significance of energy in understanding the structure of matter and the universe.
3. Evaluate the forms and transformations of energy.
4. Analyze the properties and applications of waves.
5. Evaluate relationships between electrical and magnetic forces.
6. Describe the corrections to Newtonian physics given by quantum mechanics and relativity when matter is very small, moving fast compared to the speed of light, or very large.

**Expectations:** My expectations for each student are high. We will have an exciting and innovative course of study. I expect each of you to come to class (on time!) prepared (with homework, appropriate supplies, and a positive attitude) and ready to learn! Inappropriate behavior is not acceptable at South Cobb High School. Appropriate behavior is outlined in the School Student Handbook.

**Classroom Expectations:**

1. Show respect to others and yourself
2. Have all necessary materials for class
3. Show professionalism in your dress, speech, behavior
4. Follow directions when given the first time and participate in class
5. Put forth your best effort at all times

**The following are the consequences for failure to follow the rules:**

1. Written warning
2. Department detention and parent contact
3. Administrative detention
4. Office referral

**Grading Scale:**

90 – 100	<b>A</b>
80 – 89	<b>B</b>
74 – 79	<b>C</b>
70 – 73	<b>D</b>
0 – 69	<b>F</b>

**Grading Policies:**

Students will be graded in two categories:

**Major Grades - 80%**

Tests 25%  
Reports/Projects/Labs 35%  
Final 20%

**Minor Grades – 20%**

Quizzes 10%  
Classwork/Homework 10%

**Materials:**

1 inch Three ring binder & dividers.  
Pens, pencils, paper and highlighters.  
Scientific calculator. Phone calculators will not be allowed  
Composition Notebook / Lab Notebook

**Attendance:** Students are expected to attend every class!! In case of an absence, the student should have an excuse (a doctor's note, or any document from a noted official). Should a student return without an excuse, he or she will be marked unexcused (a grade of zero will be given for all work missed). Please keep in mind that three unexcused tardies will result in detention.

**Make-up Assignments:** Students who miss assignments due to being absent will have three days to make up the work. Make-up day will be a scheduled day between the student and the teacher. Make-up work will not be given at any other times. Students must have an excused absence in order to make up work. Students will receive a grade of zero for assignments missed,

if the absence is unexcused. Remember to obtain an admittance pass from the teacher when making up work (**IT IS THE STUDENT'S RESPONSIBILITY TO COME AND MAKE-UP WORK**). Students who miss assignments due to tardies (unless the tardy is excused) will receive a grade of zero.

**Parental Contact and Conferences:** Parental contact regarding your progress and behavior is very important to the South Cobb High School Program. I am always available to your parents to discuss any issue that may be of importance to any of us. My preferred method of communication is email. Conferences are scheduled after school between the parent and the instructor. I firmly believe that if we all of us work together, we will have a very successful year!