

Physics - LCHS 2024 - 2025 School Year

Teacher: Jessica Carter

I look forward to having each of you in class. I am available for help or questions. I am available most days after school. Let me know if / when you need help and we can schedule a time.

The phone number for the school is 903-2260, please leave a message for me and I will return it as soon as I can. My school email address is carterje@lee.k12.ga.us.

Please read the syllabus & then complete the linked Google Form that says you have read & understand these policies and procedures.

Note: Important information will be provided to students via PowerPoint presentations, articles, Google Classroom, etc. It is very important that students join Google Classroom to have access to presentation material at home. Details on how to join Google Classroom will be given to students during open house and during the first week of school.

Course Description, according to the Georgia Dept. of Education:

The Physics Georgia Standards of Excellence are designed to continue the student investigations of the physical sciences that began in grades K-8, and provide students the necessary skills to be proficient in physics. These standards include more abstract concepts such as nuclear decay processes, interactions of matter and energy, velocity, acceleration, force, energy, momentum, properties and interactions of matter, electromagnetic and mechanical waves, and electricity, magnetism and their interactions. Students investigate physics concepts through experiences in laboratories and field work using the science and engineering practices of asking questions and defining problems, developing and using models, planning and carrying out investigations, analyzing and interpreting data, using mathematics and computational thinking, constructing explanations and designing solutions, engaging in argument from evidence, and obtaining, evaluating, and communicating information.

Basic Classroom Rules & Expectations

Students are expected to:

- 1) Follow school-wide policies (this includes dress-code, tardiness. & use of technology (cell phones, watches, tablets, etc.).
- 2) Come to class with all supplies (paper, pencil, etc.).
- 3) **PUT YOUR PHONE AWAY**, unless I have specifically said we are using it.
- 4) Be in class, listen, take notes when necessary, and participate. Be active in your learning!
- 5) Sleep at home, not in class.
- 6) Food/drink are NOT permitted. Water is ok, except during labs.
- 7) Have a good attitude towards learning and don't be afraid to ask questions.
- 8) Do your own work – NO CHEATING!
- 9) Arrange with the instructor (within three days of an **excused** absence) to make up missed work. It is YOUR responsibility to make arrangements. If the work is NOT made up as arranged, zeros will be given for the missed work!
- 10) Late submission of assignments will not be accepted without prior approval. Alternate assignments will be offered if a student misses the original assignment.

Consequences of behavior: You should expect to be commended for good behavior, just as you expect to be disciplined for behavior problems. I contact parents for things you do well just as I will contact them for poor choices with regard to behavior! On the other hand, poor choices with regard to behavior (school-wide policies & classroom policies) will result in:

First offense* – warning from teacher

Second offense – one on one conference between teacher & student (usually conducted after class – may result in an unexcused tardy for the next class period)

Third offense – parent contact WITH before or after-school detention & (if warranted) immediate removal from classroom

Fourth offense – referral to the administration for further disciplinary actions

* there are some behaviors that will require immediate referral to the administration

Special Assistance

In support of our school's MTSS (student support) plan, I will offer after-school and PRIDE tutoring sessions for each unit of study. Lab/Project make-ups (as needed) are scheduled for PRIDE time on Thursdays. Some lab make-ups will utilize a virtual lab activity that will be done independently, at home.

Grading

This course's grade book is based on points, not category weights. All assignments are not worth 100 points.

- ✓ **Tests:** Tests will cover knowledge & application of important concepts. Some tests will be performance-based assessments. **(Most will be worth 100 points)**
- ✓ **Quizzes:** Quizzes can be announced or unannounced as needed and cover vocabulary, material studied since the last test, or over a specific day's material. BE READY! **(20-50 points)**
- ✓ **Projects, labs, written assignments:** This category encompasses other performance-based assignments/assessments, as well as labs, and written assignments that will reflect your knowledge on standards covered throughout each unit. **(30-100 points)**
- ✓ **Daily:** This category will include work that is completed in class on a daily basis. You are responsible for following along and being active in your learning. **(10-30 points)**

Semester Exam Exemption Policy

Students may exempt semester exams if they meet the following criteria:

- **70 and above** for the semester
- **5 or fewer absences** for the semester (2 tardies = 1 absence)
- **No assigned ISS / OSS** - Students who have been assigned ISS or OSS are required to take their final exams.

Supplies

Notebook of choice - Paper - Graph paper
Colored pencils - Pencils / Pens
Scientific Calculator

Assignments (are due at the end of class on the due date)

- ✍ **ASSIGNMENTS** utilize previous scientific training, math & language art skills.
- ✍ **LABORATORY PROCEDURES** require proper laboratory safety. Students who are unwilling to follow safe laboratory procedures will not participate in the laboratory & will receive zeros for all related grades. Students work in teams during laboratory procedures at assigned lab stations.
- ✍ **LATE ASSIGNMENTS** will not be accepted without prior approval. Alternate assignments will be offered if a student misses the original assignment.

Course Objectives - per the Georgia Standards of Excellence

Unit 1: Kinematics SP1. Obtain, evaluate, and communicate information about the relationship between distance, displacement, speed, velocity, and acceleration as functions of time.
Unit 2: Forces & Motion SP2. Obtain, evaluate, and communicate information about how forces affect the motion of objects.
Unit 3: Mechanical Energy & Linear Momentum SP3. Obtain, evaluate, and communicate information about the importance of conservation laws for mechanical energy and linear momentum in predicting the behavior of physical systems.
Unit 4: Waves & Optics SP4. Obtain, evaluate, and communicate information about the properties and applications of waves.
Unit 5: Electrical & Magnetic Force Interactions SP5. Obtain, evaluate, and communicate information about electrical and magnetic force interactions.
Unit 6: Modern and Nuclear Physics SP6. Obtain, evaluate, and communicate information about nuclear changes of matter and related technological applications.

Recording Consent Statement

**Recording a meeting without the consent of all participants may be illegal and actionable. You should obtain consent to record a meeting from all participants, including external guests and guests who join late.

Lab Safety Contract & Syllabus Acknowledgement

The lab safety guidelines are included in the Google Form linked below. Students, please complete this Form by the end of the first week of school.

Google Form - <https://forms.gle/ygzGSuqUwaDxxGnd9>