

**Beeville Independent School District**  
**A.C. Jones High School**  
**Physics Syllabus**  
**2018-2019**

Instructor: Lee Lasiter

Classroom: 314

Conference: Daily 1:05 – 1:55pm

E-Mail: [llasiter@beevilleisd.net](mailto:llasiter@beevilleisd.net)

Tutorials: Daily 4:00 – 4:30pm

Website: [http://acjoneshs.beevilleisd.net/308373\\_3](http://acjoneshs.beevilleisd.net/308373_3)

**Physics is a challenging course.** Physics classes will cover all of the objectives in the Texas Essential Knowledge and Skills for Physics. Even good students often need additional assistance, so don't hesitate to come to tutorials or e-mail me. I am pleased to have you in my class and I am looking forward to working with you throughout this year. Parents, if you wish to visit me, please contact me by e-mail or by contacting the front office. I am always happy to discuss ways to help your child succeed.

In Physics, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion; changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics. Students who successfully complete Physics will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical thinking skills.

**Prerequisites.** Students taking Physics should have previously taken algebra, have sufficient reading skills to understand word problems and sufficient writing skills to complete assignments.

**Course Schedule.** The following is an outline of the material to be covered in this course. It is subject to change as needed.

**1<sup>st</sup> 9 Weeks**

Unit 1: Measureing and Graphing Motion

Unit 2: 1 Dimensional Kinematics

Unit 3: 2 Dimensional Kinematics

**2<sup>nd</sup> 9 Weeks**

Unit 4a: Newton's Laws of Motion

Unit 4b: Forces of Friction and Torque

Unit 5: Mechanical Energy

**3<sup>rd</sup> 9 Weeks**

Unit 6: Momentum

Unit 7a: Waves

Unit 7b: Sound Waves

Unit 7c: Light Waves

**4<sup>th</sup> 9 Weeks**

Unit 8: Electrostatic Charge and Gravity

Unit 9: Electricity

Unit 11: Electric Circuits

Unit 12: Thermodynamics

**Grading Policy.** The grades are calculated based upon the following scale:

40% Tests, projects

60% Daily work (homework, classwork, and laboratory experiments)

- Tests will be announced in advance. A minimum of 3 test grades / projects per reporting period will be recorded. Per district policy, reasonable opportunities to retest are allowed to assist with student success. No grade higher than a 70 will be recorded in the gradebook for retests. Retests must be completed within 3 school days. Prior to retesting, students have to attend a tutorial so I can make sure you understand the material.
- A minimum of 15 daily grades per reporting period/per subject are to be recorded with the requirement to post two per week. Per district policy, reasonable opportunities to redo failed assignments are allowed to assist with student success. No grade higher than a 70 will be recorded in the gradebook for failed assignments. Redo of assignments must be completed within 3 school days.
- Students are expected to submit assignments on time in order to receive full credit. Per board policy, students have as many days as they were absent to submit assignments for full credit. Late work shall be submitted within 3 school days of the original deadline in order for the student to receive partial credit (10 points will be deducted per day).
- ***Completing all daily assignments is critical!*** It is not possible for you to pass Physics if you do not do the assignments because no credit for an assignment hurts your grade point average.
- Semester grades will be determined by 85% (2 reporting periods) + 15% (Semester Exam). Semester exams are mandatory except for students exempted from semester exams (see *Student/Parent Handbook*).
- You are expected to have a Physics notebook and a separate equation book. The equation book (you will make it in class) will be periodically checked for a grade. You may use the equation book on all tests (highly recommended). You can use the Physics notebook to save (recommended) incomplete and graded assignments for reference at your discretion.
- Labs will be done in lab groups. We will preview the lab together as a class and I will answer questions before starting the lab. Each person is expected to take notes during the explanation of the lab so they can refer back to them to during the lab. Part of your lab grade will depend on how much you understand what you are trying to do in the lab, so ask questions during the explanations. There may also be a quiz following the lab.
- You are responsible for all subject matter covered in any reading assignment regardless of whether we explicitly cover the material in class or not. If you are absent, you must make up all missed assignments, labs, or tests. It is your responsibility to get with me to get all missed assignments and schedule any make-up tests.

**Learning Resources.** In addition to daily instruction, tutorials are available on a daily basis (unless prior commitments prevent tutorials for that day) after school from 4:00pm to 4:30pm (tutorials often extend past 4:30pm). There are also several internet resources providing instruction in Physics. Two of the most notable being:

Khan Academy - <http://www.khanacademy.org/>

University of Colorado Physics Simulations - <http://phet.colorado.edu/en/simulations/category/physics>

### **Supplies and Materials.**

1. 1.5" binder (3-hole punch)
2. Notebook paper with holes punched to fit your binder
3. Two sharpened pencils with erasers for every class

**Course Policies.** There are no exceptions to school rules as provided in the *Student/Parent Handbook*. In particular, the use of unauthorized electronic devices (cell phones, iPads, etc.) are prohibited during class (they must be turned off). There may be a few class activities where I will make an exception to use your electronic device as part of the class. If so, I will let you know when these exceptions are.

The classroom is a learning environment. Appropriate student behavior is needed to maintain a learning environment. Appropriate student behavior includes but is not limited to:

- Come with a positive, winning attitude – Together we can succeed!!!
- Treat me and your classmates with respect (this includes property)
- Be quiet and pay attention when I am, or a student is, talking to the class
- Be on time to class everyday.
- Be proud of your school and don't tolerate others destroying or trashing your school or school equipment

Consequences of inappropriate behavior (not necessarily in order):

- Glaring look
- Verbal warning from the Teacher and/or other students
- Teacher/Student conference
- Phone call/E-mail to parent
- Teacher/Student/Parent conference
- Discipline referral

Once you have reviewed the *Physics Syllabus*, please sign and return the *Acknowledgement Sheet*. This is our agreement on how the class will operate. By signing it, you are agreeing to abide by this plan and follow all school and class rules. If you or your parent/guardian has any questions, please feel free to contact me.

Sincerely,

Lee Lasiter  
Physics Teacher

# Acknowledgement Sheet

Instructions: Detach, sign and return ONLY this page

Student Name: \_\_\_\_\_ Period: \_\_\_\_\_

*(Please Print)*

We have read and do acknowledge the receipt from Mr. Lasiter of the ***Physics Syllabus*** for 2018-2019. I agree to abide by the ***Physics Syllabus*** and all school and class rules.

\_\_\_\_\_  
*Student Signature*

\_\_\_\_\_  
*Date*

\_\_\_\_\_  
*Parent Signature*

\_\_\_\_\_  
*Date*