



# FAYETTEVILLE PUBLIC SCHOOLS

FAYETTEVILLE HIGH SCHOOL

994 W. Martin Luther King Blvd. Fayetteville, AR, 72701

## Physics FHS Course Syllabus 2025-2026 Academic School Year

teacher	Marc Reif
email	marc.reif@fayar.net
school phone	479-444-3050
google classroom code	v7j4aam2
Teacher Website	<a href="https://fysicsfool.com">fysicsfool.com</a>
code for homework website	<a href="https://physicsclassroom.com">physicsclassroom.com</a>
availability	To speak to Mr. Reif, please email him for an appointment (typically available 1:45 pm to 2:45 pm)

### Course Overview:

Physics focuses on the interaction between matter and energy. Mathematical concepts are utilized to quantify everyday observations. Laboratory activities in this class are designed for the student to observe natural phenomena and then develop ideas about the physical world from those observations. Additionally, the labs are designed to develop students' skills in investigation, data collection and analysis, problem solving, and communication of technical information.

### Course Outline

<u>FALL SEMESTER</u> Unit 1 Geometric Optics Unit 2 Mechanical Waves Unit 3 Sound Unit 4 Light as a Wave Unit 5 Constant Velocity Final Project or Test: TBA	<u>SPRING SEMESTER</u> Unit 6 Constant Acceleration Unit 7 Impulse and Momentum Unit 8 Forces Unit 9 Energy Unit 10 Energy Resources Final Project: Energy and Society Project
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### GRADING POLICY

18 week grades in the class are categorized as either *Assignments* or *Assessments*. Assignments are any work that a student may receive help from the instructor, or their peers. This category includes, but is not limited to: classwork, homework, research, and labs. Assessments are designed to formally assess student knowledge of a particular unit of study. This category will consist primarily of quizzes and unit exams, but may also contain lab assessments, and portions of larger projects.

**18 week grade will be calculated using the following percentages:**

- **Assessments: Tests, Quizzes, etc. - 60%**
- **Assignments: Labs, classwork, homework, etc. - 40%**

One or more low grades may be dropped in each category at the instructor's discretion. Additionally, there will be optional assignments from time to time. Optional assignments do not count against a student's grade if they choose not to complete the assignment.

### GRADEBOOK CODES

Grades will be entered into the gradebook on a timely basis. Students are to check their grade often, especially after grades have been entered and assignments returned. Instructors do their absolute best to ensure grades are entered correctly, but mistakes will be made from time to time. It is the student's responsibility to ensure the grade in the gradebook accurately reflects their assignments and assessments. Below are symbols that may appear in lieu of a grade, and their meaning:

- **Z** - A student did not turn in the assignment - calculates as a zero. Assignment may still be turned in.
- **0** - A student turned in the assignment, but failed to earn any points. OR assignment is excessively late and may no longer be turned in for credit.
- **X** - The student is exempt from the assignment or assessment. This grade is not factored into the grade calculation.

### IMPORTANT GRADE CONSIDERATIONS

The following are not worth points, however they inherently have an effect on grades.

- **Attendance:** One of the easiest and most effective actions a student can take to ensure success is to show up every single class period.
- **Preparedness:** In addition to being present, being prepared is vitally important to success. Prepared students are present with classwork/homework complete and arrive to class having studied for quizzes and exams.
- **Contribution:** Learning in the Physics classroom is a group effort. All students learn more and enjoy themselves more when all students contribute to the class. Students who contribute to the betterment of the class bring positive attitudes, a curious mind, help each other when able, and ask questions when they do not understand.
- **Citizenship:** A positive attitude towards fellow students and the instructor is vitally important to the atmosphere of the class.



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### **MAKE-UP WORK AND RE-DO POLICY**

- **Assignments:** Students may re-do any recent assignments that were turned in on time for full credit, and the work must be completed **within one week** of receiving the original graded assignment. Corrections must be done on a separate sheet of paper and handed in with the original assignment. If the assignment was a Google Doc, instructions for corrections may be given in class.
- **Assessments:** Students may not retake unit exams. Each semester, the lowest unit exam grade will be replaced with the highest. Some quizzes, at the instructor's discretion, may be offered for retakes with a specified deadline. This will be announced in class. **Missed assessments may be made up during Advisory, or before/after school as long as this is scheduled with the instructor in advance.**

### **MAKEUP WORK (FROM THE FHS STUDENT HANDBOOK)**

For excused absences, a student will be granted one day for each day absent (maximum of 7 days) to make up work. This also applies to students who are suspended from school. For unexcused absences, work will be accepted at the teacher's discretion. It is the teacher's prerogative to not accept make-up work or to assign a grade of zero to any work that is not turned in according to their specific classroom rules. In order to have an accurate reflection of what a student's grade truly is, ALL missing work will be entered as a Z (can still turn in for credit), X (student is exempt from completing the assignment), or a zero (student cannot turn in work for credit) for excused and unexcused absences depending on how they are going to treat the missing work. Students will receive credit for missing work per individual classroom teacher rules.

### **CLASS EXPECTATIONS**

The expectation is the student will show up fully prepared everyday, on time, and be a contributing member of the class. Attendance, organization and participation are the keys to success in any class. Students are expected to abide by the following policies:

- A student showing up after the bell will be counted tardy according to the FHS student handbook.
- Pursuant to Arkansas law, the use of personal electronic devices is prohibited during the school day. Additionally, the District is required to restrict the possession of a personal electronic device during the school day.

### **TUTORING AND MAKE-UP WORK**

Extra help is available for students both before and after school, and during advisory time.



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### **LATE WORK**

The expectation is that work will be handed in on the due date. **Failure to complete work on time is a major contributor to poor grades in this class.** Late work will not be accepted after the graded assignment has been returned. Students must follow the make-up work and re-do policy to receive credit for late assignments.

### **LAB WORK**

Labs in the class are announced at least one day in advance. In order for the student to participate in the lab, they must have on appropriate clothing for the specified lab. This may include closed toe shoes, and other proper clothing. Please tie back long hair during labs.

### **MISSING CLASS**

Students who miss class for any unanticipated reason should check for assignments in Google Classroom and Planbook before their return to class. Please contact your instructor if you will be absent for an extended period.

Students who have pre arranged absences (field trips, athletic absences, doctor appointments, etc.) are expected to get the assignments in advance of the absence and have assignments ready when they return to class.

### **Student Skills:**

- **Reason** effectively, **think** critically, and **solve problems** using mathematical computations and reasoning.
- **Communicate** effectively and apply the basic concepts of physics in speech and writing.
- **Identify and solve problems** through scientific inquiry (scientific process).
- Select and properly use appropriate laboratory technology, equipment and materials.
- Prepare and present oral and written reports that communicate the results of scientific experiments and research.
- Utilize resources to conduct research in the area of Physics.
- Be able to link and explain physics concepts to common experiences outside of the classroom.



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Physics Parents/Guardians -

It is the student's responsibility to understand the information in the syllabus, and to retain the syllabus in their binder so that it may be used as a reference. By signing this sheet below, the students are stating they have read the syllabus and will retain it in their Physics binder for future reference.

Below are the class policies the instructors feel you, as the parent or guardian, need to know regarding the course. Please initial next to each policy after you have read them. Write any comments or questions you may have on the back of this page.

Initial	Class policy
	Unassisted work, i.e., tests and quizzes compose 60% of the grade. Homework, labs, classwork compose 40% of the grade.
	Cell phone use will result in the consequences outlined in the FHS Student Handbook
	Communication with students outside of class will be through Google Classroom and Remind. Students are expected to utilize these tools.
	Primary communication with parents/guardians will be through email or text. Parents please ensure the correct email and phone are on file with the school.
	Students and parents should check the gradebook often. Grade book codes are: <ul style="list-style-type: none"><li>- X: exempt from assignment</li><li>- Z: assignment not turned in, counts as a zero</li><li>- 0: assignment turned in, but received no credit</li></ul>
	Homework, labs, and classwork may be re-done for full credit (under instructor supervision) if students follow the procedures above. Exams may not be retaken. Quizzes may be re-done at the instructor's discretion.

Student Name (please print)

Student signature

Date

Period

Parent/Guardian Name

Parent/Guardian Signature

Date

Comments: \_\_\_\_\_