

GWYNN PARK HIGH SCHOOL

Course Title: Physics

Teacher: Mr. Robert J. Walsh

Contact Information: e-mail—robert.walsh@pgcps.org

I. Course Description:

Aim: Physics is the study of basic phenomena that occur in the world of everyday experience, such as force, gravity, motion, electricity, magnetism; and also within the domain of the atom and atomic nucleus. More broadly, it concerns itself with matter, energy, space and time. In the class, the objectives include giving the student familiarity with a range of concepts involving the world and larger universe as well as an understanding of the ways in which scientists investigate these phenomena. Also s/he will gain an appreciation for how technology is based on the science of physics.

Topics:

Mechanics—the study of motion and force
Thermodynamics—the study of heat phenomena
Wave Motion, Electromagnetism—how energy
is transmitted through matter and space
The World of the Atom

Length: This course is one year.

Prerequisites: Algebra I, one other science course

II. Expectations:

Each student is expected to attend all scheduled classes; arrive prepared with text, binder, pencil, and calculator; participate in class activities; and complete all assignments on time.

Instruction will be delivered using various learning styles.

Students will work after being introduced to subject matter with guided practice and also independent assignments.

Students will work independently as well as in groups.

The students will be assessed using written and oral tests and quizzes.

Laboratory investigations are a part of the course.

III. **Grading Factors:**

Classwork	15%
Homework	10%
Written Assignments/Projects/Labs	25%
Tests/Quizzes	25%
Quarterly Exam	25%

IV. **Pacing Guide:**

The instructor intends to spend approximately one quarter covering each of the four topics named under Course Description.

V. **Textbook:**

Glencoe—Physics: Principles and Problems, 1999

VI. **Supplies/Materials:**

Text is to be brought to every class along with three ring binder, pencil, ruler, paper and calculator (low cost scientific).

VII. **Rules/Procedures:**

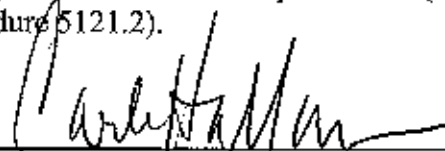
- ID badges are to be worn in class.
- NO food, drink, or gum.
- NO hats or other head coverings are to be worn.
- Take care of your personal needs between classes.
- BE in your seat BEFORE the second bell, and remain seated unless given permission to get up.
- Have above supplies with you every class.
- NO TALKING after second bell.
- The class is dismissed by the teacher, NOT the bell.
- RAISE your hand both to ask or answer a question.
- NO iPods, cell phones, or CD players are to be on or in use.

Attendance is crucial to a student's success. Prince George's County Public Schools Administrative Procedure 5113, *Pupil Attendance and Absence*, five days of unlawful (unexcused) absence in a semester or ten days unlawful for the year will result in no

Grade (' N') for the course. Also, students will not be able to make up work for an excused absence.

When absent, a student has TWO days to bring in a note to be excused for the absence. The note is given to the first period teacher, who will give an attendance form to the student which will indicate whether or not the absence is excused. The student must show this to all other teachers in order to be excused for their classes. After this, a student has three days in which to make up the work (according to County BOE Administrative Procedure 5121.2).

Approved:



Carletta Maprow, Principal

Parent/ Guardian Signature: _____

Student Signature: _____