Course Outline: Physics 11

Ms. Johnston (Rm. 106N)

Students will demonstrate an understanding and appreciation of the role of physics in society and develop knowledge, skills and methods employed by physicists. Emphasis will be placed on the applications of physics to everyday living and the skills needed in the workplace. Students will be engaged in the investigation of scientific questions and the development of plausible solutions.

Course Content

Section 1 - Introduction to Physics

Measurements of Science Degree of Uncertainty Displaying Data Manipulating Equations

Section 2 - Kinematics and Dynamics

Describing Motion: Velocity Acceleration Forces Vectors Motion in Two Directions Universal Gravitation Momentum and Its Conservation

Section 3 - Mechanical and Heat Energy

Work, Energy and Power Energy Thermal Energy

Section 4 - Wave Motion and Geometric Optics

Waves and Energy Transfer Light Reflection and Refraction Mirrors and Lenses Diffraction and Interference of Light

Section 5/6 - Nuclear Physics/Special Relativity

<u>Supplies</u>

3 ring binder per graph paper (4mm) cal ruler pro

pencil and pen calculator protractor

Grading and Evaluation

Α	86 -100	С	60 - 66
В	73 - 85	C-	50 - 59 (Pass)
C+	67 - 72	F	40 - 49 (Fail)

First Term Mark

a) Tests (70%)

Includes quizzes and chapter/section exams. Students are responsible for completing exams missed. Expect to write exams after school or at lunch upon the day of your return.

b) Labs and Assignments (30%)

Formal labs and informal labs will be collected and graded. Homework assignments will also be collected occasionally. Any labs or assignments missed due to legitimate absences are the responsibility of the student and should be completed and handed in upon your return. Assignments or labs not handed in will result in zero.

Final Grade

a) Final Exam (20% of the final grade)

All students are required to write the final exam in Physics. The final will be comprehensive and worth 25 % of the final grade.

b) End of term mark (80%)

The end of term mark of tests and labs will consist of 75% of the final grade. Tests (56% of the overall marks) Labs and Assignments (24% of the overall marks)

Office Hours

Students requesting additional assistance or time to make up labs or tests may see me at lunch of after school, by appointment.

Website Information

Ms. Johnston maintains a website containing course outlines, assigned homework, notes, and links to other useful websites. If you are absent from school or unsure of the required work for the next day, please visit the website so that you can start catching up. The website address is: http://johnstonsd36.weebly.com