Welcome to Advanced Placement Physics 2!

I am excited that you have chosen to continue your studies of physics! I'm looking forward to working with you as you deepen your understanding of physics. AP Physics 2 is equivalent to the second semester of a typical introductory, college-level algebra-based physics course. You will cultivate your understanding of physics through inquiry-based investigations as you explore topics including fluid statics and dynamics; thermodynamics with kinetic theory, PV diagrams, and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics. At least 25% of class time will be spend doing lab work. You will be expected to think critically and scientifically, as you develop, communicate, and justify solutions to demonstrate your conceptual understanding of the content covered.

Taking AP level courses is one way that students can distinguish themselves academically when applying to colleges or universities. In addition, doing well in AP level courses may be helpful in applying for scholarships. Students in AP Physics 2 are eligible to apply for college credit by taking the College Board AP Physics 2 Exam or through Clackamas Community College. Earning college credit while still in high school may save time and money in the future, but it is also an excellent way to build experience and develop the academic skills necessary to be successful at a college or university.

As a college-level course, AP Physics 2 will demand both time and effort, but it will also be very rewarding. Although the amount of time spent outside of class will vary for each individual, you should be prepared to spend an average of about 30 minutes to an hour on Physics homework daily. Homework will be submitted weekly, and may include problem sets from the textbook, laboratory analysis questions, or AP exam review materials. You will be expected to budget your time carefully to ensure that you have sufficient time to complete assignments, and ask questions prior to the weekly deadlines. I strongly encourage you to form study partnerships with your peers in the class, and you will be expected to collaborate with your classmates throughout the course. I am always available to support you as you develop as a scientist and a student, and I hope that you will come to me with questions or concerns as they arise. We will be spending a lot of time together next school year, so I would like to get to know a bit about you and why you are taking this class. The summer homework is designed to help me get to know you, and to provide you with an overview of the skills we well be practicing over the upcoming year. It will also include a review of physics and math concepts that you learned in AP Physics 1.

To get started, you will need to enroll in the AP Physics class on Google Classroom. I will be using Google Classroom throughout the school year to post lecture notes, as well as to collect homework documents. Your first assignment, a letter of introduction, will be submitted via Google Classroom, and will be due at the end of June. To sign up, you will need to go to classroom.google.com and sign in using your school e-mail account. Add a class by using the code **41ua6gk**

I will have paper copies of the complete summer homework assignment available in my classroom starting on June 1. Electronic versions of the homework assignment will be posted to the classroom page as well. Please feel free to stop by my classroom (E212) or e-mail me if you have questions or concerns.

I hope that you have a safe and enjoyable summer, and I look forward to seeing you in the fall!

Sincerely,

Ms. Ota
e-mail: *stephanie.ota@orecity.k12.or.us*