

# AP Physics 1

Julie  
(Mrs. McDevitt)

# Welcome Parents!



# Well, maybe not exactly....

- ▶ Some things are different this year but some things are still the same...
- ▶ Your son/daughter has been amazing this first three weeks.....
- ▶ Thank you for setting them up for success!!!
- ▶ Thank you for encouraging them to be and do their best!

# About me...

- ▶ On my 24<sup>th</sup> year here at WLHS, and my 26<sup>th</sup> year of teaching.
- ▶ I teach physics with my husband,
- ▶ and I'm also a chemistry teacher...
- ▶ I enjoy getting to know your children, and empowering them to have grit...
- ▶ Grit = passion and perseverance for long-term and meaningful goals.
- ▶ I care about your children and honestly want the best for them...

# Content covered in AP Physics 1

- ▶ Kinematics (the “how” of Motion in One and Two dimensions)
- ▶ Dynamics (the “why” of Motion)
- ▶ Circular Motion & Gravitation, and Rotational Motion
- ▶ Impulse, Momentum, Conservation of Momentum, and Energy and Energy Conservation
- ▶ Simple Harmonic Motion, and Mechanical Waves & Sound
- ▶ Electrostatics, and DC Electric Circuits

# Time is tight, yet my goal is to cover all of the content....

- ▶ You can't learn/memorize everything the night before the exam!
- ▶ Learning physics requires the following:
  1. Time
  2. Repeated exposure
  3. Practice

# Online platforms....

- ▶ We will be using several online platforms in this class this year. Some have been around for quite a while some are new. Almost all are new to your son/daughter and I.
- ▶ Synergy: New student management program for the district.
- ▶ AP Classroom: Excellent resources provided by the College Board.
- ▶ Google classroom: The location of our class Weekly Calendar, also where I post assignments.
- ▶ Phet: Online virtual lab activities. Outstanding resource!
- ▶ Pivot: A new source of virtual lab activities based around high speed video of prerecorded phenomena.



The AP Physics test will be on Wednesday, May 5<sup>th</sup> 2021 (11:30am - 4pm approximately)

<https://apcentral.collegeboard.org/courses/exam-dates-and-fees>

Information on the AP Physics 1 exam can be found at <https://apcentral.collegeboard.org/courses/ap-physics-1/course> or from your friendly Physics teacher.

In order to prepare you best for the AP exam, questions on in-class exams and problem sets will be partially taken from practice “AP Physics 1 College Board Exams.”



# Physics is different than most other classes...

- ▶ Because students walk through the door already having an idea of how the world works at a physical level...
- ▶ We are natural observers of phenomenon around us...
- ▶ We come to conclusions based on those observations...
- ▶ Our conclusions are not always correct...
- ▶ It is challenging to think about and look at a situation differently than you have all of your life.
- ▶ Ex: If an object is moving, there must be a force causing the object to keep moving, right? Ask your child this question tomorrow night, and then the next night, and again on Friday night.

# Tips for success in physics...

- ▶ Help your children budget time so they get enough sleep.....
- ▶ Stay on top of work...
- ▶ Watching isn't practicing...
- ▶ Learning is hard work, and, it is okay to make mistakes....
- ▶ Re-try questions you missed at a later time (maybe try that same question the next day)...
- ▶ Make appointments to Zoom with me after school to get help...
- ▶ Peers in the same course are a great resource....
- ▶ Online grades are up every week ... Please check grades often.

## Homework:

Homework is a learning activity—an opportunity to develop understanding. You will need to be very responsible and independent in your learning, and you completing the homework assignments are critical to your success in this class. Homework may consist of problems assigned out of your textbook (“BW”), reading your textbook while taking notes, and/or reading a Power Point while taking notes. You can expect 5–10 problems (aka, “problem sets”) each night following class and must be solved using the “Equation-Substitute-Answer” method, **showing your work completely, detailed and well organized** (e.g, diagram, givens, unknowns, equations, substitution, answer with units). *Problems done without showing work will not be accepted.*

## Homework: continued

All answers to homework will be posted in our Google Classroom, and it is expected that you will check your answers independently to each and every homework problem assigned for correct thinking and accuracy prior to class. We will not spend class time going over homework problems; therefore, I encourage you to check in with me and ask questions if/when you have a question. Coming to class with your homework completed on time, completed with accuracy and with thought, is a major component to being successful in this class and on the AP exam. As well, your success in this class will also greatly depend on how much review you do on a nightly, and weekly, basis.

- ▶ **Exams:** This class will be largely dominated by exams totaling **70% of your grade**. Possessing complete and thorough understanding of assigned problem sets is the key to you performing well on unit exams. (Assigned problem sets will be found in the homework and are book assignments that I call BW 1, BW 2, etc. from your textbook. “BW” = Book Work assignments.)
- ▶ **Quizzes & Class Activities:** There will be quizzes (usually one quiz per week unless we are taking an exam that week) during the year. These quizzes will be checkpoints—making sure you know where you stand prior to the unit exam. The quizzes will consist of material already covered in class, mostly focusing on the homework problems. You are expected to stay current on all homework, and therefore, quizzes will sometimes be announced, and sometimes unannounced. Class Activities are also included in this category. Quizzes and Class Activities will total approximately **30% of your grade**.

<b><u>Grades:</u></b> A:	90 - 100%
B:	80 - 89%
C:	70 - 79%
D:	60 - 69%

**Reassessment:** If you are still developing your understanding after the unit exam, you may have another opportunity to demonstrate your understanding, if you comply with the following condition, and if you scored below 70% on the exam:

You must show me all of your bookwork completed by you for that unit when asked (it may be at any moment), and only if all work is complete will you be deemed the opportunity to reassess. If your work is in any way incomplete, then you forfeit the opportunity to reassess for that unit.

The maximum credit received on a reassessment is half of every point missed on corrected work up to a maximum of 70%.

# More useful info...

- ▶ Wk 4 9-28-20 APP1
- ▶ AP Physics 1 First Quarter 2020
- ▶ My email: mcdevitj@wlwv.k12.or.us



# Thank you...

- ▶ For encouraging your child to *be* her/his best.
- ▶ For encouraging your child to *do* his/her best.
- ▶ For trusting me with your children.