AP Physics C - Syllabus for 8/31/2020 - 9/11/2020 (Units 0/1 - Course introductions and expectations, Foundational Understanding, Graphing, Estimation, Mathematical Models, Kinematics 1-D and 2-D)

- **Virtual assignments (M, T or Th, F) → Due Monday following the week assigned at 11:59 PM**
- **In person assignments → Due dates may vary based on cohort**
- **Wednesday virtual assignments → Should be completed on Wednesday if possible, if not by the following Monday at 11:59 PM**

Unit 0 standards:

- **Standard 1 - Describe how different types of representations relate to each other and to the physical world in a given situation**
- **Standard 2 - Determine how to correctly represent a relationship between two or more variables using the appropriate model(s) (mathematical, graphical, descriptive) by various methods including plotting appropriate data and linearizing a graph using experimental data**
- **Standard 3 - Make scientific claims by using reasonable order-of-magnitude estimates or collected data as evidence to support those claims**

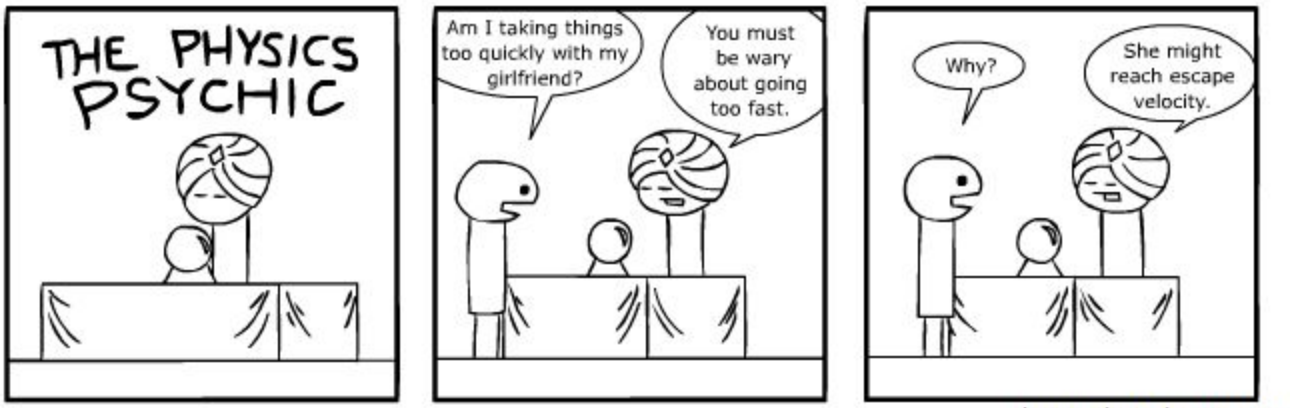
Daily schedule	Cohort A	Cohort B
Monday, 8/31	**In person** - Welcome! Discuss building procedures, safety (traditional + COVID), passes, etc. and perform 3x5 card activity (digitally) Stay positive, have open communication with me, and let me know if you ever feel unsafe or uncomfortable so I can fix things! We'll figure this out! (AP C content discussion)	**Virtual** - Fill out questionnaire as a Google form, read through syllabus and watch my introduction video by clicking here (by Monday at 11:59 PM, preferably earlier) and fill out the two question Google form about my video. Complete FlipGrid assignment as an introduction about yourself! Assignment is in Google Classroom
Tuesday, 9/1	**In person** - Mindset discussion ("What I value"), grading discussion, academic integrity, calendar activity Begin scaling and estimation activity (digital copy available)	**Virtual** - Sign-ups and tutorials for using websites, apps, staying in contact, etc. Message me if you have trouble with any of these. HW: Read Ch. 1 for next week, complete the exit ticket (3 things I knew, 3 things I learned, 3 things I need reinforcement on/have questions about) by Monday at 11:59 PM
Wednesday, 9/2	**Virtual** - Take the FCI as a pretest for what you already know (not for a grade) Mindset videos (2) from Dr. Stephen Chew - watch, and respond to the questions posted in Google Classroom at some point today as an exit ticket	**Virtual** - Take the FCI as a pretest for what you already know (not for a grade) Mindset videos (2) from Dr. Stephen Chew - watch, and respond to the questions posted in Google Classroom at some point today as an exit ticket
Thursday, 9/3	Fill out questionnaire as a Google form, read through syllabus and watch my introduction video by clicking here (by Monday at 11:59 PM, preferably earlier) and fill out the two question Google form about my video. Complete FlipGrid assignment as an introduction about yourself! Assignment is in Google Classroom	**In person** - Welcome! Discuss building procedures, safety (traditional + COVID), passes, etc. and perform 3x5 card activity (digitally) Stay positive, have open communication with me, and let me know if you ever feel unsafe or uncomfortable so I can fix things! We'll figure this out! (AP C content discussion)

Friday, 9/4	**Virtual** - Sign-ups and tutorials for using websites, apps, staying in contact, etc. Message me if you have trouble with any of these. HW: Read Ch. 1 for next week, complete the exit ticket (3 things I knew, 3 things I learned, 3 things I need reinforcement on/have questions about) by Monday at 11:59 PM	**In person** - Mindset discussion ("What I value"), grading discussion, calendar activity Begin scaling and estimation activity

Daily schedule	**Cohort A**	**Cohort B**
Monday, 9/7	**No school, Labor Day holiday**	**No school, Labor Day holiday**
Tuesday, 9/8	**In person** - Continue and complete scaling and estimation activity - turn this in by this Thursday at 11:59 PM Demonstrations with three motions and draw, sketch out on a whiteboard and discuss how you could think about the three types of kinematics graphs PLUS an introduction to JERK!	**Virtual** - Graphical methods summary and tutorial about how to use Graphical Analysis, and how to linearize a graph based on an equation (V) Practice using Graphical Analysis for two sets of data from those provided - submit screenshots by Monday at 11:59 PM
Wednesday, 9/9	**Virtual** - Complete checklist of all apps, websites, and resources to let me know what you've signed up for successfully, and what you haven't as well as letting me know about the roadblocks Watch FlipGrid videos of your classmates and comment on at least three of the videos	**Virtual** - Complete checklist of all apps, websites, and resources to let me know what you've signed up for successfully, and what you haven't as well as letting me know about the roadblocks Watch FlipGrid videos of your classmates and comment on at least three of the videos
Thursday, 9/10	**Virtual** - Graphical methods summary and tutorial about how to use Graphical Analysis, and how to linearize a graph based on an equation (V) Practice using Graphical Analysis for two sets of data from those provided - submit screenshots by Monday at 11:59 PM	**In person** - Continue and complete scaling and estimation activity - turn this in by today at 11:59 PM Demonstrations with three motions and draw, sketch out on a whiteboard and discuss how you could think about the three types of kinematics graphs PLUS an introduction to JERK!
Friday, 9/11	**Virtual** - ExpertTA tutorial and work on initial assignment - due by Tuesday at 4:59 AM	**In person** - Work in class on ExpertTA tutorial and initial assignment - due by 4:59 AM on Tuesday

A look ahead:

Ch. 1 HW from textbook including example from me
We'll be doing the Left Foot activity and assessment related to this
Reading quiz on Ch. 2 (synchronous, on Wednesday during our class time)
AP Classroom - how to use and personal progress check
Stacks of kinematic curves and "find the mistake"
ExpertTA sample problem solving
Invention tasks
Card sorts? TIPERs?
Calculus and kinematics discussion


THE PHYSICS PSYCHIC
Am I taking things too quickly with my girlfriend?
You must be wary about going too fast.
Why?
She might reach escape velocity.
drawingboardcomic.com