

AP Physics 2 - Syllabus for 9/14/2020 – 9/25/2020 (Unit 1 - Electric forces, electric fields and electric potential)

Unit standards:

Standard 1 - Describe that charge is a property of an object or system that affects interactions with other charged objects or systems, and that the electric charge of a system is conserved unless there is charge transfer with another system.

Standard 2 - Explain how a charged object or system interacts with another object or system that has the same charge, opposite charge or is neutral (both conducting neutral objects and insulating neutral objects).

- **Look on the syllabus for due dates and times (which may vary by cohort)**
- **Virtual Office Hour each Wednesday from 1-2 PM, or contact me through Remind if you have questions**

Daily schedule	Cohort A	Cohort B
Monday, 9/14	<p>In person - Sticky tape lab (complete part 1 in class today)</p> <p>Physics Classroom Interactives due tonight at 11:59 PM (assigned last week)</p> <p>Hand out <i>5 Steps to a 5</i></p> <p>Hand out PhET hard copy of simulations assigned last week. Go over Part A if there are questions. Part B will be due next week in class on Monday, 9/21</p> <p>ExpertTA due Tuesday, 9/15 at 4:59 AM</p> <p>Ch. 20 Conceptual Questions (handed out last Tuesday) due Monday, 9/21</p>	<p>Virtual - Complete the PhET simulations for electric 'Charges and Fields' (Part A) for class on Thursday, 9/17</p> <p>Physics Classroom Interactives due tonight at 11:59 PM (assigned last week)</p> <p>ExpertTA due Tuesday, 9/15 at 4:59 AM</p>
Tuesday, 9/15	<p>In person - Any questions on ExpertTA?</p> <p>Finish sticky tape lab (Part 1 and 2) and turn in</p> <p>Work in class on Part B of PhET activities</p>	<p>Virtual - Complete Ch. 20 conceptual questions for Thursday, 9/17</p> <p>Complete Ch. 20 exercises and problems #'s 7, 14, 24, 29, 33, 35, 37, 51 & 58 for class on Friday 9/18 (I'll post answers to the evens, odd answers are in the back of the textbook)</p>
Weds., 9/16	<p>Virtual - Read your <i>5 Steps to a 5</i> (Chapters 1, 2, 3, and 8) and complete the exit ticket, which is just a couple questions by 11:59 PM on Thursday, 9/17 (A scanned copy will be online this time only)</p>	<p>Virtual - Read your <i>5 Steps to a 5</i> (Chapters 1, 2, 3, and 8) and complete the exit ticket, which is just a couple questions by 11:59 PM on Thursday, 9/17 (A scanned copy will be online since you won't have this yet)</p>
Thurs., 9/17	<p>Virtual - Complete Ch. 20 exercises and problems #'s 7, 14, 24, 29, 33, 35, 37, 51 & 58 for class on Tuesday 9/22 (I'll post answers to the evens, odd answers are in the back of the textbook)</p>	<p>In person - Any questions on ExpertTA?</p> <p>Check/ go over Ch. 20 conceptual questions</p> <p>Questions on PhET simulations (Part A)? Complete Part B by tomorrow in class</p> <p>Finish sticky tape lab part A and go through part B conceptually</p>

		Hand out <i>5 Steps to a 5</i>
Friday, 9/18	Virtual - Read and take notes for a reading quiz on Ch. 21 (Electric Potential) on Tuesday, 9/22.	In person - Collect PhET simulations Complete and turn in sticky tape lab (in class work) Demonstrations with electroscopes (did you see these last year?)

Daily schedule	Cohort A	Cohort B
Monday, 9/21	In person - Check and go over Ch. 20 Conceptual Questions Collect PhET simulations	Virtual - HW: Rezd and take notes on Ch. 21 (Electric Potential) for a reading quiz on Thursday, 9/24
Tuesday, 9/22	In person - Check and go over Ch. 20 HW problems/exercises Ch. 21 reading quiz and discussion	Virtual - Listen to my lecture and examples with Ch. 21 and come in with questions on Thursday
Weds, 9/23	Virtual - Complete Personal Progress Check (Multiple Choice, Unit 3, part A and B) from AP Classroom → Complete by 11:59 PM today	Virtual - Complete Personal Progress Check (Multiple Choice, Unit 3, part A and B) from AP Classroom → Complete by 11:59 PM today
Thurs, 9/24	Virtual - HW: Rezd and take notes on Ch. 21 (Electric Potential) for a reading quiz in class on Monday, 9/28	In person - Questions on Ch. 21 information? Ch. 21 reading quiz and lecture/discussion Discussion on capacitors, and capacitors and dielectric Any questions on the Personal progress Checks?
Friday, 9/25	Virtual - Listen to my lecture and examples with Ch. 21 and come in with questions on Monday HW: Ch. 21: (A) ExpertTA → Due on Thurs., 10/1 at 5:00 AM	In person - Work in class on LAB: Adding Capacitors to Simple Circuits Hand out PhET capacitor simulation so students can work on this next week HW: Ch. 21: (A) ExpertTA → Due on Weds., 9/30 at 5:00 AM and (B) Conceptual Questions 5, 6, 8, 11, & 13) due Thurs., 10/1 in class

A look ahead:

Sample free response questions
PhET Capacitor Lab
HW for Chapter 21

Our first quiz
Five Steps to a Five for electrostatics