

# UCONN PHYSICS SYLLABUS – 3rd QUARTER

Jan 24, 2023 – March 26, 2023



## Unit 12: Electric Charges, Forces and Fields

(~2 weeks)

Textbook: Physics - James Walker (AP-edition)

Required reading is: pages 652 – 690

Recommended Videos:

1. <https://www.youtube.com/watch?v=TFIVWf8JX4A> (PBS Crash Course of Electrostatics 9:41 min)
2. <https://www.youtube.com/watch?v=dwJ-MM7yu4E> (Electrostatic Induction Bozeman 8:36 min)
3. <https://www.youtube.com/watch?v=mjI8AxZnrX8> (hit by lightning twice)
4. <https://www.youtube.com/watch?v=T0J5q43MSw8> (Van de graaf generator)
5. <https://www.youtube.com/watch?v=tuZxFL9cGkI> (danger at gas pump 1:20 min)
6. <https://www.youtube.com/watch?v=b89x8CAS6xU> ( danger at gas pump 4:00 min)
7. <https://www.youtube.com/watch?v=JsVJRNqptXc> (create your own gas station fire 2:00 min)  
(DON'T DO #7, WATCH THE VIDEO ONLY !!!)
8. <https://www.youtube.com/watch?v=PASbhOd75Y> (Potential Difference 5:20 min)

### Assignments:

#### Homework:

Wkst I

Wkst II

Wkst III

#### Date Due

2-26-24

2-28-24

3-01-24

#### Points

40 pts.

40 pts.

40 pts.

Lab: Conduction & Induction Electroscope Lab

Lab: Phet Electric Field Potential Lab I

2-26-24

3-05-24

40 pts.

40 pts.

Quiz: Induction / Conduction Form A,B,C,D

Quiz: Coulombs Law Quiz Form E,F,G,H

2-26-24

2-29-24

20 pts.

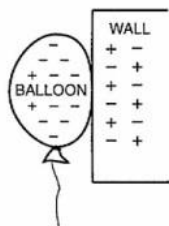
65 pts.

Test: Form A-D

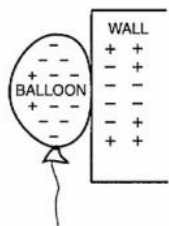
3-05-24

70 pt

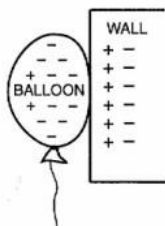
*WHICH ONE IS CORRECT!!*



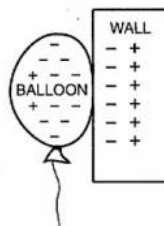
(1)



(2)



(3)



(4)