Laboratory 3

https://ophysics.com/em2.html

- 1. In the given Millikan Oil drop experiment applet,
 - (i) Determine the charge on ten (or more) different oil-drops. Record all your data in a table or spreadsheet.
 - (ii) When you have the table filled in, look at the various values for q. Is there any pattern to them, or are they seemingly random? Can you draw any conclusions from the Q measurements?

https://phet.colorado.edu/en/simulation/coulombs-law

- 2. (i) Relate the electrostatic force magnitude to the charges and the distance between them.
 - (ii) Use measurements to determine Coulomb's constant. (iii) Determine what makes a force attractive or repulsive.