Relationship between Electric Force, Charge & Distance

Click on the following link, then **select macroscale**.

<https://phet.colorado.edu/sims/html/coulombs-law/latest/coulombs-law_en.html>

**Use the simulator to design an experiment to find the relationship between electric force, charge and distance. Record this experiment in your lab notebook including the sections listed below (you may also create an electronic file if you rather).**

Question: What is the relationship between electric force, charge and distance?

Prediction:

Procedure:

Data Table:

Graphs:

Claim (answer to the question):

Reasoning (explain how your evidence (data) supports your claim):

Formula (Use the relationships you found to make a formula including electric force, distance, and charge):

**When you are finished look up Coulomb’s Law and check your formula to see if you are correct. In your lab notebook after the lab writeup write a one paragraph reflection on how will you formula matched Coulomb’s, explain what you were missing and why or why yours matched his.**