Experiment 2: The Electric Force Field

Student Name: _____

Section Number: _____

PRELAB

PRE-LAB Instructions:

Print out this page. Feel free to refer to the lab Instructions and other materials, your physics textbook, other students, etc. to help you to ponder, understand, and work out answers to the following question(s). Show your work & answers in the space(s) provided.

PRE-LAB Questions

1) What is meant by equipotential lines and how are they related to the electric field?

2) What would you expect the electric field to look like inside a hollow conductor? Explain.

3) Sketch the electric field (use solid lines) and equipotential lines (use dashed lines) between two point charges: (a) when they are alike, and (b) when they are unlike.