Name:		
Number:		_
Date:	_/_	/

Unit 10: Electrostatics LAB: Charging by induction

Objectives:

- <u>Learning Objective 4.E.3.5</u>: The student is able to explain and/or analyze the results of experiments in which electric charge rearrangement occurs by electrostatic induction, or is able to refine a scientific question relating to such an experiment by identifying anomalies in a data set or procedure.
- <u>Learning Objective 5.C.2.2</u>: The student is able to design a plan to collect data on the electrical charging of objects and electric charge induction on neutral objects and qualitatively analyze that data.
- <u>Learning Objective 5.C.2.3</u>: The student is able to justify the selection of data relevant to an investigation of the electrical charging of objects and electric charge induction on neutral objects.

Hypothesis:

Background:

• On what principles did you base your hypothesis and your procedure?

Equipment: PASCO charge sensor, electroscope, various fabrics and charging materials

Procedure:

Data Tables, Graphs, and Calculations: (If relevant, include an error analysis that will help you conclude about your hypothesis.)

Conclusion:

• What can you conclude? Justify your conclusion(s) with evidence.

• Were there errors? If so, account for them.