

Name: _____

Number: _____

Date: ____/____/____

Unit 10: Electrostatics

LAB: Charging by induction

Objectives:

- Learning Objective 4.E.3.5: 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.
- Learning Objective 5.C.2.2: 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.
- Learning Objective 5.C.2.3: 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

