

INTRODUCTION

TA NAME:
 OFFICE: M3 3.02.26
 DAY TIME:
 E-MAIL:
 SUPERVISOR: JAMES BENSON
 OFFICE: M3. 3.02.47

IMPORTANT

- 1) SYLLABUS
- 2) LAB MANUAL
- 3) LAB WEBSITE
- 4) ATTENDANCE

LAB REPORT FORMAT

- 1) COVER SHEET
 - COURSE NAME + SECTION
 - LAB NAME + NUMBER
 - STUDENT NAME
 - BANNER ID
- 2) WRITE-UP
 - DATA ANALYSIS
 - QUESTIONS
 - CONCLUSION

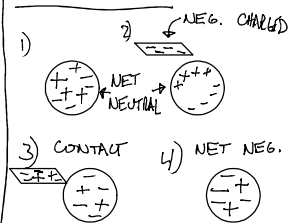
LAB 1: ELECTROSTATIC CHARGING

* ELECTRICAL CHARGE:
 $q = ne$ ← ELEMENTARY CHARGE
 e INTEGER ($1.602 \times 10^{-19} C$)
 CHARGE (MEASURED IN COLUMB, C)

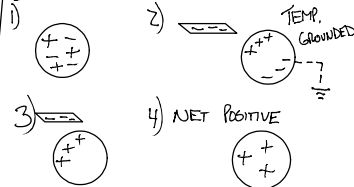
* ELECTROSTATICS
 $\oplus \times \ominus$ OPPOSITES ATTRACT
 $\ominus \rightarrow \ominus$ SAME REPEL

* ELECTROSTATIC CHARGING
 - CONDUCTION
 - INDUCTION

BY CONDUCTION



BY INDUCTION



EXPERIMENT

- PASCO CAPSTONE
 - CHARGE SENSOR 10HZ
 - GRAPH CHARGE VS TIME
- HARDWARE
- CHARGE SENSOR 5X
 - LONG WIRE (RED BAND)
 - INSIDE
 - SHORT WIRE (BLACK BAND)
 - OUTSIDE



REPORT

- COVER SHEET
 - WRITE-UP
 - ATTACHMENTS
- FIG 1) DET. POLARITY
- FIG 2) CONDUCTION: FIG. 3) W.C.P.
- FIG. 3) B.C.P

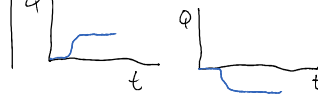


FIG 4) INDUCTION W.C.P.



FIG 5) INDUCTION: B.C.P.

