

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)

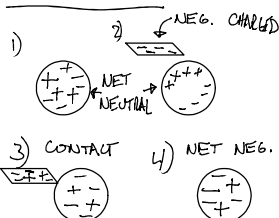
* ELECTROSTATICS

⊕ × ⊖ OPPOSITES ATTRACT
 ⊖ ← ⊕ ⊕ → ⊖ SAME REPEL

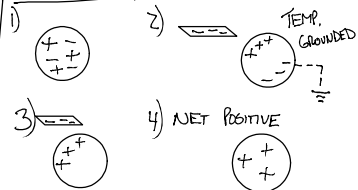
* ELECTROSTATIC CHARGING

- CONDUCTION
- INDUCTION

BY CONDUCTION



BY INDUCTION



EXPERIMENT

- PASCO SOFTWARE
- 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.
 B.C.P

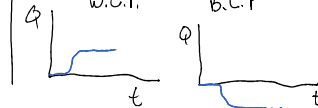


FIG 4) INDUCTION W.C.P.



FIG 5) INDUCTION: B.C.P.

