



Electricity and Magnetism
Lab 2
Charge Distribution on Conductors

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Overview

- Discussion of laboratory work
- Equipment

Guidelines for lab books

- Put your name and section number on the outside front cover.
- Lab books stay in the lab.
- Fill in the table of contents as you complete labs.
- Put the date and title on your labs.
- Write only in pen. Pencil can only be used to plot points on your graphs.
- Always record data! “The results were similar” is not okay.
- Always give units and make it clear what is being measured by what device.

Purpose of the Lab

To measure how charge is distributed on a conductor.

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To measure how charge is distributed on a conductor.

Again, you will measure charge indirectly, by measuring **potential difference**.

Potential difference is also called voltage.

Its symbol is V , and the units are Volts, V.

Electrometer: for measuring charge / voltage



Make sure it is grounded!

Conducting shapes

Do not touch the surface of the shapes!

The more you handle them, the more the oil from your fingers will effect your results.

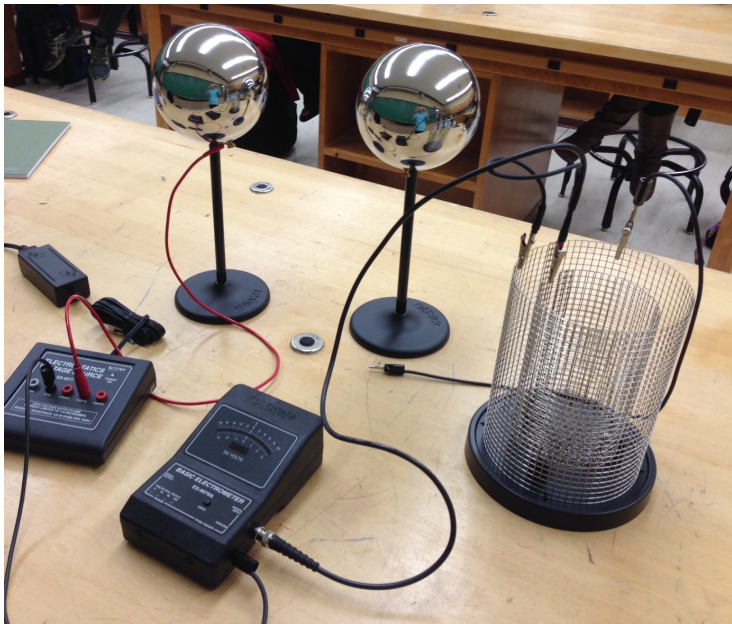
Be careful not to scratch the surface with the leads.

Please put the shapes back in the plastic bags and cardboard boxes when you are done with them.

Fork terminal: charging the sphere

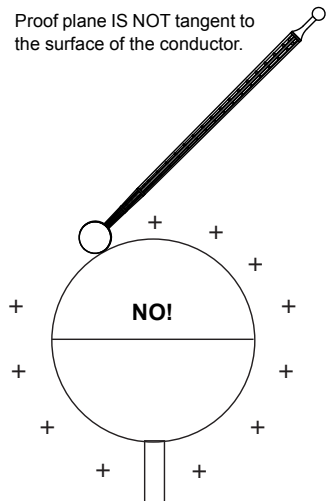


Equipment



Sampling charge

Proof plane IS NOT tangent to the surface of the conductor.



Proof plane IS tangent to the surface of the conductor.

