Methods of Charging

Objectives

- Explain the concept of conservation of charge.
- Understand the three methods of how objects become charged.

Conservation of Charge

Charge cannot be created or destroyed, but can be transferred.

Methods of Charging

Build up of electric charges:
- Friction
- Conduction
- Induction

Friction

- Both objects begin neutral
- Objects end with opposite charges

Conduction

- 1 object begins with charge
- Objects end with same charge
Methods of Charging

**Induction**

1 object begins w/ charge
objects end w/ opposite charge

**Lightning**

Electric discharge
Loss of static electricity as electric charges move off an object.
Grounding – lightning rod

**Electroscope**

**VandeGraff Generator:**

- Conducting Shell
- Insulating Support
- Rubber Belt
- Motor
- Ground

**Assignments . . .**

- Lab 32.1
- Finish Chapter 32 Homework