

Methods of Charging

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Objectives

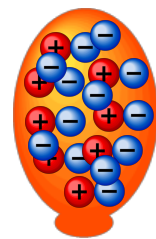
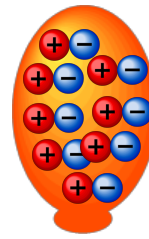
Explain the concept of conservation of charge.

Understand the three methods of how objects become charged.



Electrically Neutral

Electrically 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 w/ opposite charges



Conduction

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

touch

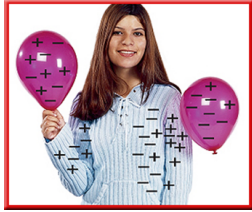


Methods of Charging

Induction

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

Lightning

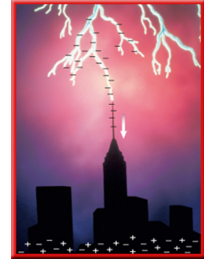


Lightning

Electric discharge

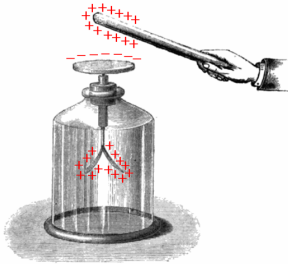
Loss of static electricity as electric charges move off an object.

Grounding – lightning rod

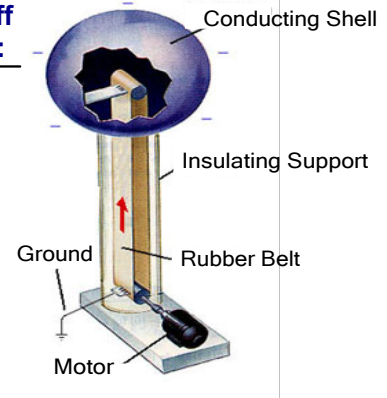


Electroscope

-induction



VandeGraff Generator:



Assignments . . .



- Lab 14.1

