

Note Taking Guide - Episode 801

- Neutral atoms contain equal numbers of positive _____ and negative _____.
- Only the _____ move to create unbalanced charges.
- When atoms lose electrons they become _____ charged ions.
- Like charges _____ and opposite charges _____.

Friction:

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Static Electricity:

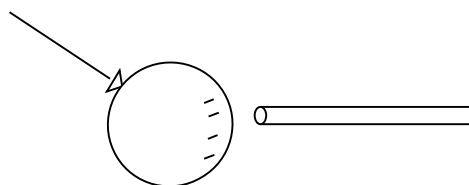
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Rubber material of a balloon has a greater attraction for electrons than hair. Loosely held electrons are stripped from the _____ and added to the _____.

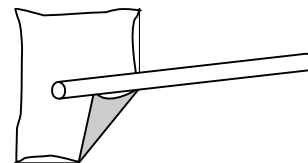
The hair _____ electrons and becomes _____ charged. The rubber _____ electrons and becomes _____ charged.

Acetate tube attracts the balloon.

_____ charges attract. Acetate is _____ charged.



Paper towel has _____ attraction for electrons than acetate.



List some examples of electrification (production of a static charge) by friction:

Problem Set #1 (on back)

Conductor:

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- Examples:

Insulator:

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- Examples:

_____ are good conductors because they have _____ electrons.

It is easy to put a static charge on an insulator because -

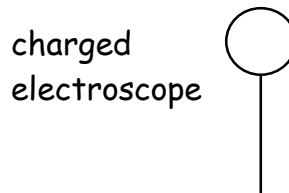
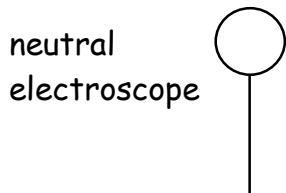
Grounding -

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To put a static charge on a conductor:

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Pith balls and electroscopes detect _____ charges. Both are made of _____ to allow electrons to move freely, and both use insulators to _____ the metal parts from the ground.



Show What You Know: 1. 2. 3. 4.