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: Static Electricity: 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)

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.

neutral electroscope

charged electroscope

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