- Positively charged: electrons are removed making the object electron deficient.
- Negatively charged: electrons are added giving the object an excess of electrons.

So in practise what happens is that the number of positive charges (protons) remains the same and the number of electrons changes:

There are:

6 positive charges and 6 negative charges



There is zero net charge: The object is neutral

6 positive charges and 4 negative charges



The net charge is +2

6 positive charges and 9 negative charges



The net charge is -3: The object is positively charged. The object is negatively charged

## Tribo-electric charging

ESAES

Time

Charge, like energy, cannot be created or destroyed. White service that charge is conserwed.

Objects may become charged in many ways, including by contact with or being rubbed by other objects. This means that they can gain or lose negative charge. For example, charging happens when you rub your feet against the carpet. When you then touch something metallic or another person, you feel a shock as the excess charge that you have collected is discharged.

When you rub your feet against the carpet, negative charge is transferred to you from the carpet. The carpet will then become positively charged by the same amount.

See video: VPfns at www.everythingscience.co.za

Another example is to take two neutral objects such as a plastic ruler and a cotton cloth (handkerchief). To begin, the two objects are neutral (i.e. have the same amounts of positive and negative charge).

Note: We represent the positive charge with a + and the negative charge with a -. This is just to illustrate the balance and changes that occur, not the actual location of the positive and negative charges. The charges are spread throughout the material and the real change happens by increasing or decreasing electrons on the surface of the materials.

# **Physical Science Grade11 Term3 Electrostatics**

**WJ Hussar** 

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In some sort of used by displays and the ceaseless chatter of instantaneous communication, the melodic elegance and psychological symphony produced by the written term often diminish in to the back ground, eclipsed by the relentless noise and distractions that permeate our lives. Nevertheless, set within the pages of **Physical Science Grade11 Term3 Electrostatics** a charming fictional value overflowing with organic feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, that fascinating masterpiece conducts viewers on a psychological journey, well unraveling the concealed tunes and profound influence resonating within each cautiously crafted phrase. Within the depths of the poignant analysis, we will explore the book is key harmonies, analyze their enthralling publishing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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