STATIC ELECTRICITY!

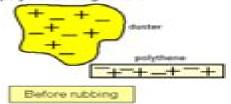
Introduction:

Hey everyone! How are you ali? Today we are going to start static electricity. First of all, have you girls ever wondered why your hair get attracted to the sweaters you wear in winters? It's because when your hair get rubbed with the sweater, they acquire static electric charges and become charged. This shows that friction from rubbing can cause an object to be charged or electrified.

Electrostatic Charging by Friction:

Electrostatics is the study of static charges, just like the case of hair we just discussed. Some objects like duster and polythene will acquire electric charges when they are rubbed together. How do they acquire the charges? This happens because the electrons are transferred from one object to another.

For example, take a look at the diagram below. The duster is rubbed with the polythene as shown. Initially, before rubbing, both have equal negative and positive charges, that is, they are neutral. After rubbing, the duster becomes positively charged while the polythene becomes negatively charged i.e. the duster has lost electrons and of course, polythene has gained it.





How are these charges transferred by friction?

Let's get into more detail of what's happening. We all know that all matter is made up of tiny particles called atoms. And we know the composition of an atom: it consists of negatively charged electrons, positively charged protons and neutral (uncharged) particles called neutrons. The number of electrons and protons is equal which causes the atom to be neutral.

What will happen if, somehow, the charges are unbalanced? As in the number of electrons and protons is not equal. The atom will carry some charge, right? If you are thinking of how the number of electrons and protons can be different, it can occur when electrons are added or removed from the atom (protons are never added or removed, they lie within the nucleus) such that when electrons are added, the atom will carry negative charge and viceversa. Such an atom which is charged is called an ion.

As we saw, in case when the duster was rubbed with the polythene, what happens is the atoms at the surface are disturbed and some electrons from the surface atoms of one object (duster in this case) are transferred to the other object (that is polythene).

Notice that the electric charge is not created or destroyed: it is only transferred?

Electric charge is measured in Coulombs (C), no matter if its negative or positive. The amount of charge on an electron is 1.6 x 10⁻¹⁹ C, indeed a very small charge.

Insulators and Conductors:

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