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1.- ELECTRICITY:

All substances are formed by molecules and **atoms**. The center of an atom is called **nucleus**. It is made of particles called **protons** and **neutrons**. Protons have a positive charge. Atoms have got an electron shell formed by **electrons**. Electrons have a negative charge. They are much smaller than the nucleus. Electrons are spinning around the nucleus. If the size of the nucleus would be like a tennis ball, the **electron shell** would be like a football stadium.

Electricity current is the flow of electrons from atom to atom in a conductor substance.

1.1.- Static electricity:

All objects contain electrical charges. These charges are positive and negative. Static electricity occurs when the electrons from one object jump to another object.

A.- If an object contains more positive charges than negative ones, it has a positive charge.

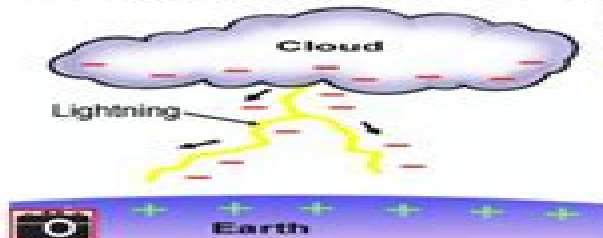
B.- If the object has more negative charges than positive ones, it has a negative charge.

Example: If we rub a balloon or a plastic ruler with a piece of cloth or on our own hair, the balloon will be charged with electricity (static electricity). We will observe that the balloon can attract small pieces of paper or hair. This reaction is because the balloon or the ruler is charged and attract little pieces of paper or hair that have got the opposite charge.

If we charge two balloons with the same piece of cloth, they will repel each other.

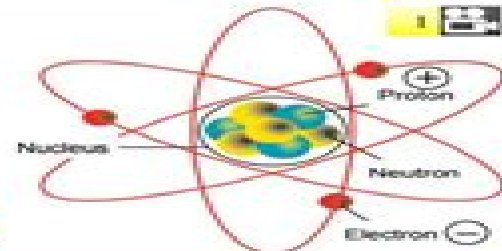
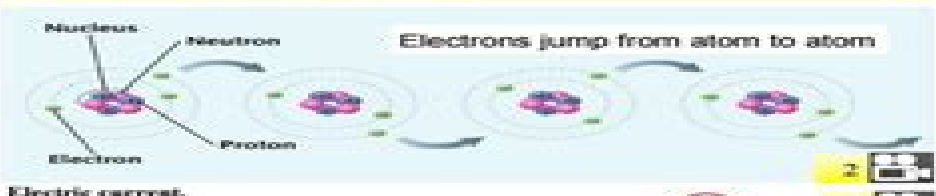
- **Opposite electrical charges attract each other.**
- **Same electrical charges repel each other.**

We can feel static electricity when we get out from a car, and when we touch the metal door, we sometimes feel a shock. During a storm there is a lot of static electricity in the air.



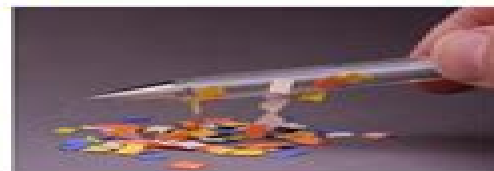
Electrons from the cloud fall down to the Earth (lightning).

ELECTRICITY is the flow of electrons from atom to atom in a conductor substance.

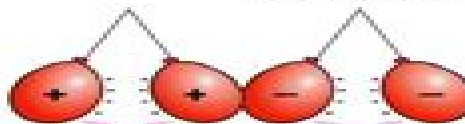


Static electricity occurs when the electrons from one object jump to another object.

In **Static electricity** charges don't move or flow.



Static electricity attracts little pieces of paper or hair.

**USEFUL WORDS:**

- electricity
- neutron
- positive charge
- static electricity
- to attract

- flow
- proton
- negative charge
- electron shell
- to repel

- atom
- electron
- current
- to rub
- lightning

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Peipei Pang



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