

ELECTRIC CAR FACT SHEET

Electric battery:

The first electric battery was invented by Alessandro Volta in 1800. Its nickname was the “wet battery” because it was very complicated and wet. The electronic process took place when 2 metals were connected using a conducting liquid.

There are different types of batteries, and most of today’s batteries work in the same way as the first battery.

The battery developed to using more complicated chemical processes. Scientists created electricity using chemical processes between different elements.

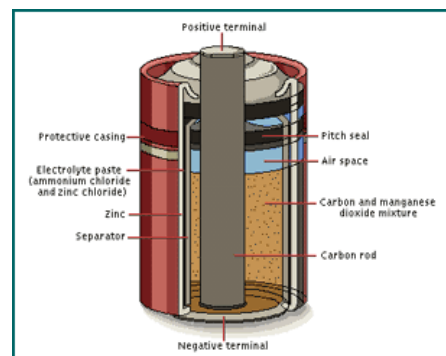
Therefore, the battery is a cell that transfers energy. Electricity is created inside a battery by the combination of chemicals with metals inside the battery’s body.

A process that creates an electronic flow between positives and negatives begins inside the battery.

The negative part is marked with “+” and the positive part is marked with a “-“

Useful information – Generally, in motors and other electronic devices around the world, the red cable is the “+” and the black is the “-“

It is easy to remember that red is like fire and, therefore, it is positive, while black reminds us of bad things and, therefore, it is the negative side.



Propeller:

We know many different kinds of propellers such as the fan we have at home, or the helicopter we see in the sky.

The propeller changes air pressure from one side to another.

We can know where the pressure is higher or lower by looking at the direction the propeller moves.

For example, if we stand behind a fan, we would feel that there is no air coming in our direction. If we stand in front of a fan, however, we will feel the air it pushes.

It is important to remember that a propeller does not create air, but it fast and creates additional air movement around it.

You can conduct an experiment to see exactly how a propeller works.

Take a large trash bag (clean, ofcourse), place it on your lips and blow air into it until it is completely full of air. Measure how long it took you to fill up the bag with air.

Then try it again, but now hold the bag farther from your face and blow out air strongly. You will see that the bag puffs up faster. The reason for this is that, this time, it is not only the air from your lungs that goes into the bag, but also the air around the bag creates a larger movement of air which goes into the bag.

So now that we understand how a propeller works, lets try to understand how our propeller engine works. Lets check which way we should place the propeller so that our car drives forward.

And if we had a helicopter, how would we place the propeller so that the helicopter departs upward?

