

NAME- SONU KUMAR

CLASS- 8TH A

ROLL NO - 833

***CHEMICAL EFFECTS OF
ELECTRIC CURRENT***

What is electric current?

❖ An electric current is a flow of electric charge, in electric circuit this charge is often carried by moving electrons in a wire. It can also be carried by ions in an electrolyte, or by both ions and electrons such as plasma.

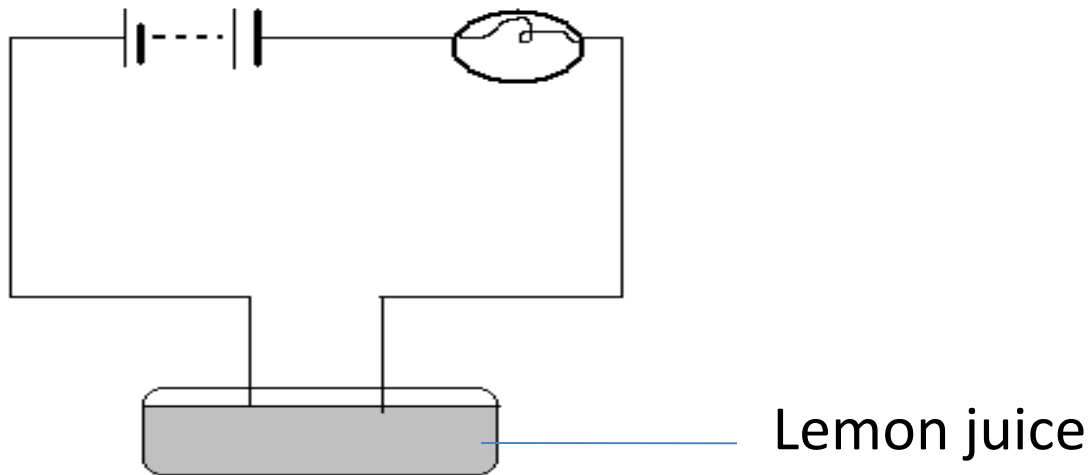
❖ The passage of an electric current through a conducting solution causes chemical reactions. This is known as the chemical effects of electric current.

❖ Some of the effects of the electric current are the following

1. Formation of bubbles of a gas on the electrodes.
2. Deposition of metal on electrodes.
3. Change in colour of solutions.

Does lemon juice or vinegar- a good conductor of electricity?

Answer is yes. Please see the below image.



Electrolysis

- ❖ The process of decomposition of a chemical compound in a solution when an electric current passes through it is called electrolysis.
- ❖ The solution that conducts electricity due to presence of ions is called an electrolyte.

Electroplating

- The most common application of electrolysis is electroplating. Electroplating is a process of coating one metal with another using an electric current, in this process, there exists an electrolyte, through which current passes.