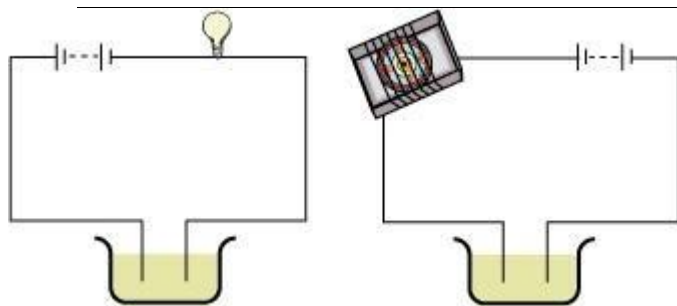


Chemical Effects of Electric Current

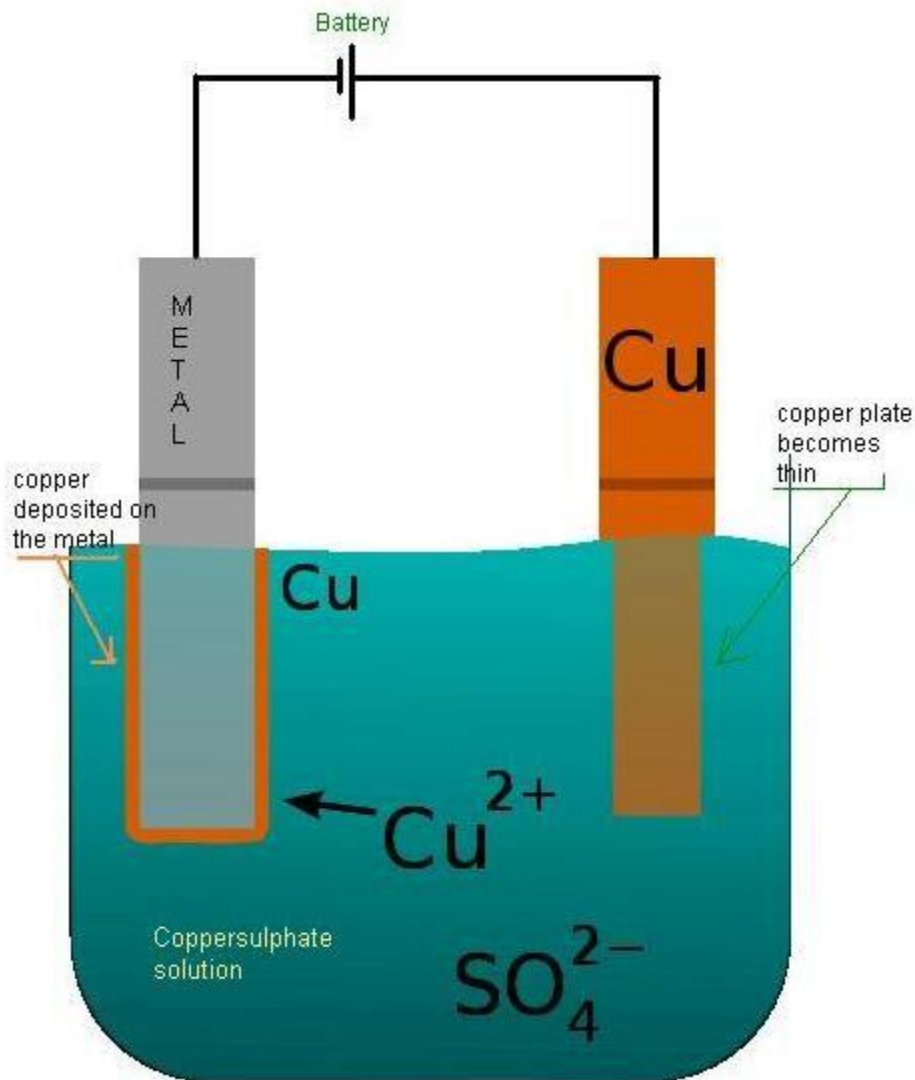


- The bulb will glow or the magnetic needle will show deflection if the liquid in the beaker is a good conductor of electricity.
- Greater the deflection of needle or brighter the light, better is the conductivity of the liquid.

Good conductor	Poor conductor
Lemon Juice	Coal tar
Vinegar	Distilled water
Acid solutions	Honey
Basic solutions	Vegetable oil
Salty water	Kerosene

- Conducting liquids are also called electrolytes.
- The electric current passing through a conducting liquid (electrolyte) causes chemical reactions (electrolysis).
- A chemical reaction takes place when an electric current passes through a conducting solution.
- A greenish-blue spot on the potato around the positive electrode is seen if current is passed through wire.
- The chemical effects of electric current are used in the working of electrochemical cells.
- Electrochemical cells which generate current are called **voltaic cells** or **galvanic cells**. Common batteries also consist of one or more such cells.

- Electroplating is the process of coating a metal using electric current and electrolyte.



- The above picture explains how copper can be deposited on a different metal using electroplating.
- Electroplating can be used to give shiny and scratch proof finish (properties of chromium) to objects made from cheaper metals. Also, a coating of zinc is deposited on iron to protect it from formation of rust.