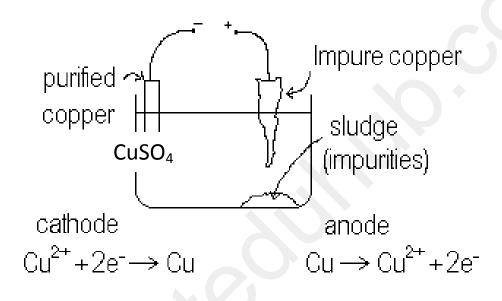


- The impure copper is used as the anode
- The pure copper is used as the cathode.
- The electrolyte is a salt of copper (copper sulfate).



- The size of the anode decreases as the pure copper atoms undergo reduction and go into the solution as copper ions.
- The size of the cathode increases as the copper ions from the electrolyte accept electrons at the cathode and deposit themselves as copper atoms.
- The impurities fall at the bottom of the cell. They are called as anode sludge or anode slime.
- The colour of the electrolyte does not change as the copper ions removed from the solution at the cathode are replaced by the copper ions produced at the anode.

• Copper is used for various purposes. The use depends on the properties of copper.

Property of copper	Uses
Good conductormalleable and ductile	Used in electrical wiring
 Good conductor of heat High melting point and high boiling point Unreactive /Resists corrosion Malleable or ductile 	Used to make cooking utensils
 Malleable and ductile 	Alloys,Jwellery,electroplating, making roofs.