



Important requirement o a battery

1. A Useful battery should fulfil the following requirements

1. It should be light and compact for easy transport.
2. It should have long life both when it is being used and when it is not used.
3. The voltage of the battery should not vary considerably during its use

S.No	Primary Battery(Non-Rechargeable)	Secondary Battery(Rechargeable)
1	Have high energy density and slow in discharge and easy to use	They are smaller energy density
2	It has an irreversible chemical reaction	It has a reversible chemical reaction
3	There are no fluids in the cells hence it is also called as dry cells	There are made up of wet cells and liquid and molten salt
4	Its design is smaller and lighter	Its design is more complex and heavier
5	Its initial cost is cheap	Its initial cost is high



Primary Battery



Lead Acid Battery (Secondary Battery)



Nicad Battery



Lithium Ion Battery



The construction and working of alkaline battery

Describe the electrochemical reactions that occur at the anode and cathode during the discharge cycle of an alkaline battery.