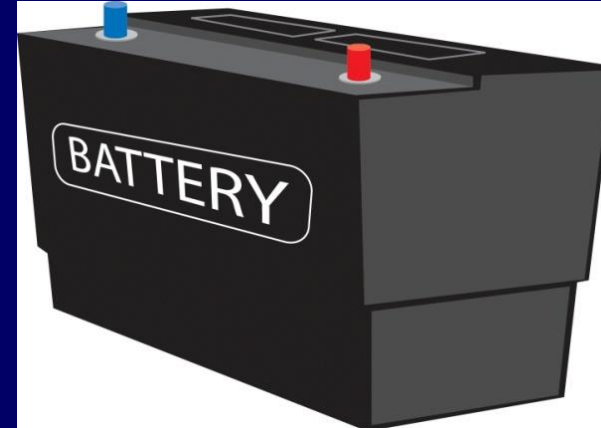
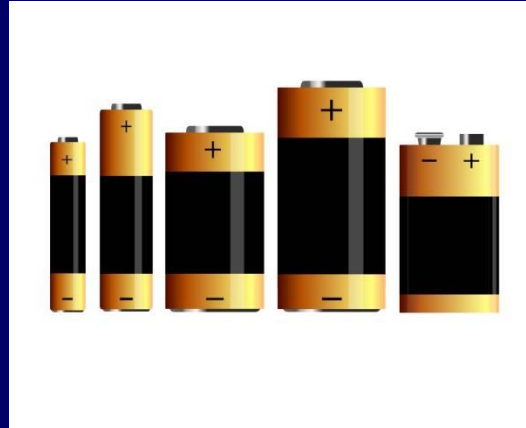
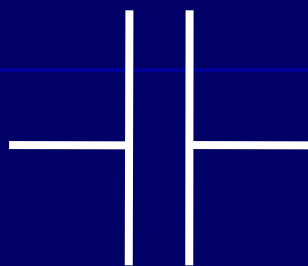


Batteries

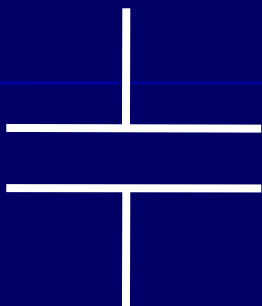
Batteries in the workplace?



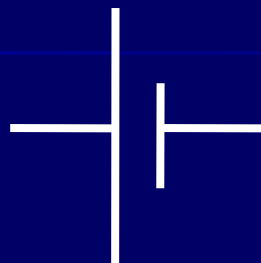
Electrical Symbols



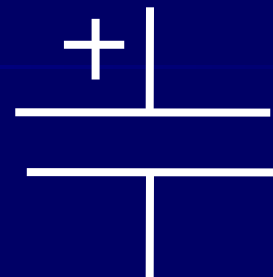
N/O Contact
Examine if
Closed



Capacitor



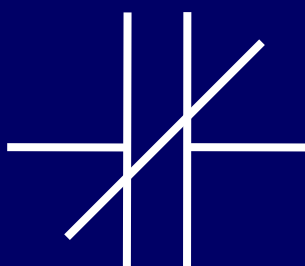
Cell



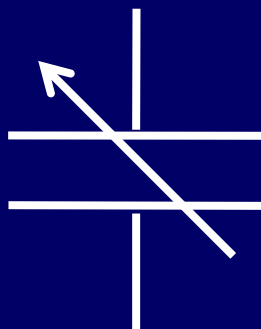
Polarised
Capacitor



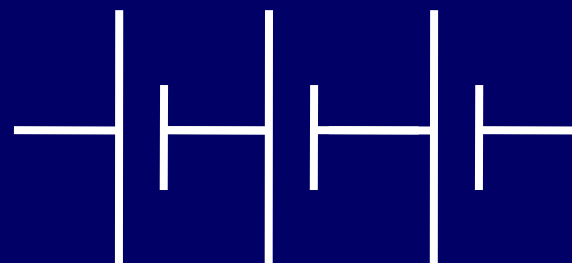
Polarised
Electrolytic
Capacitor



N/C Contact
Examine if Open



Variable
Capacitor



Battery

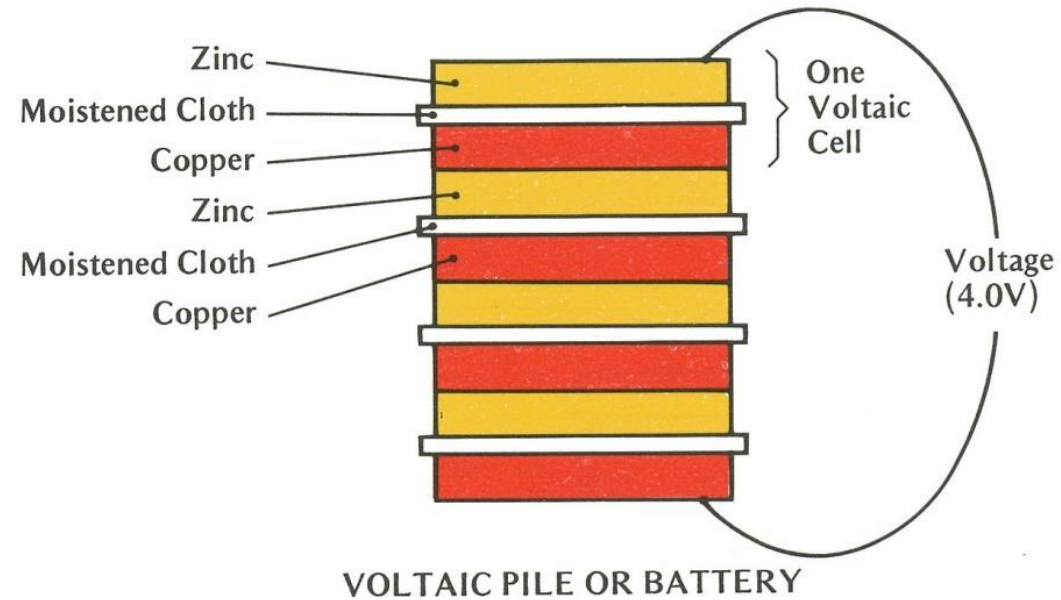
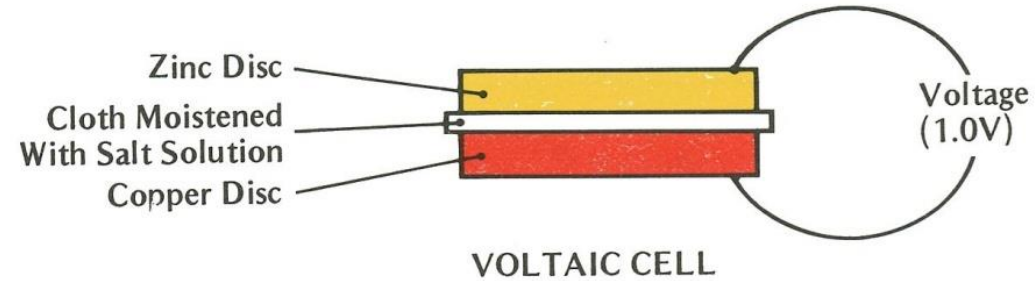
Primary or Secondary?



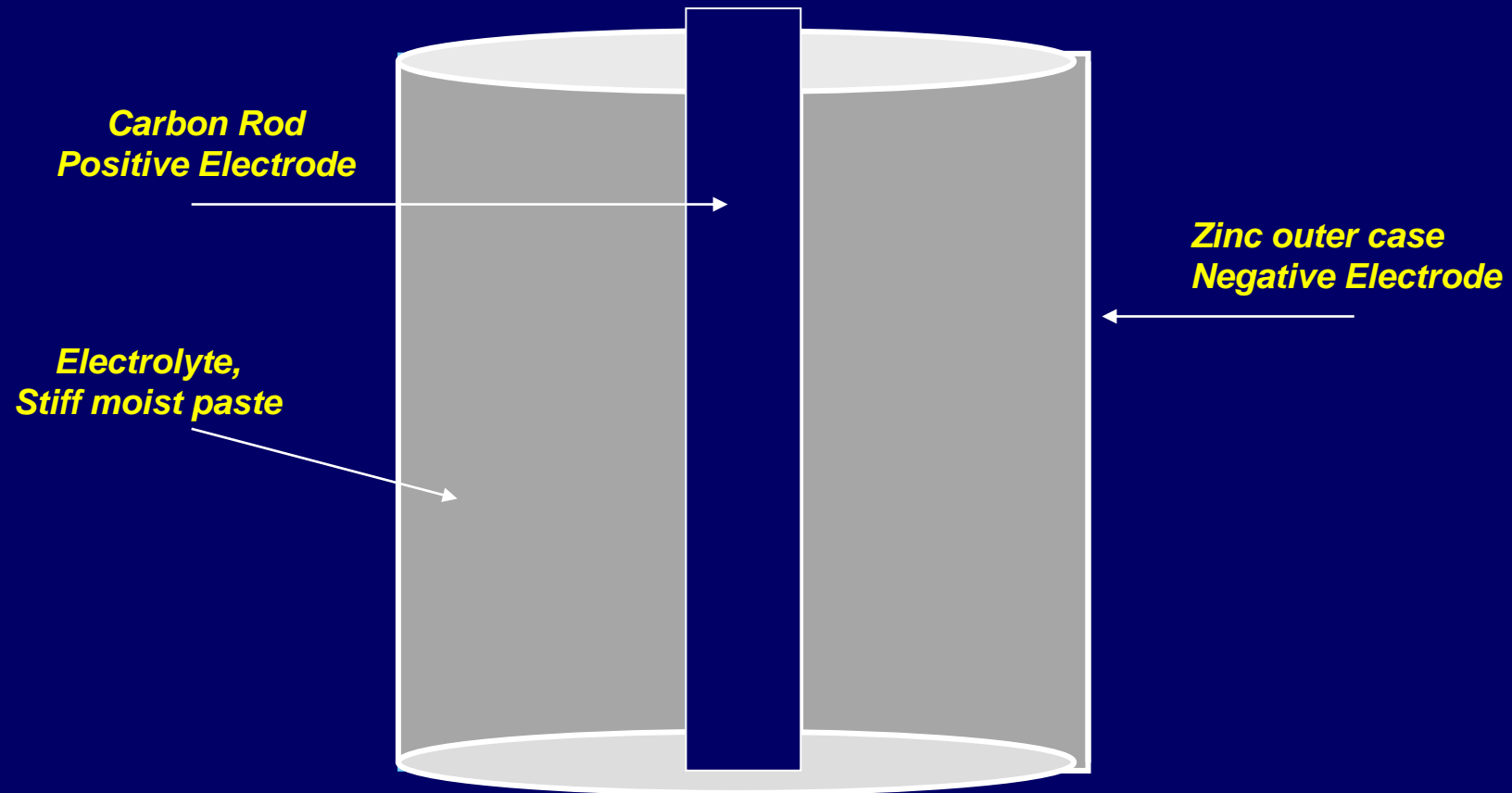
Acid or Alkaline?

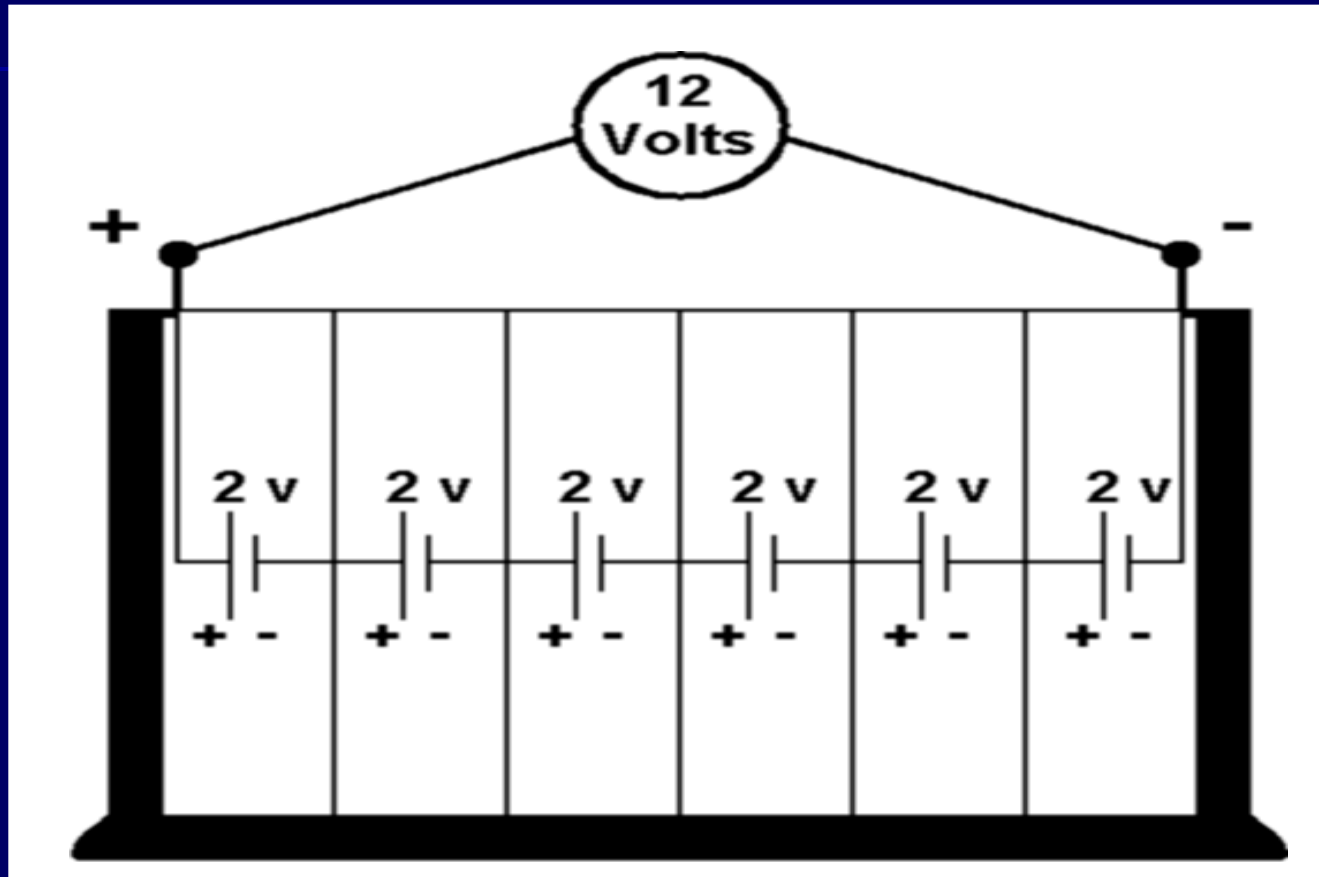


Early Primary (Circa 1800)



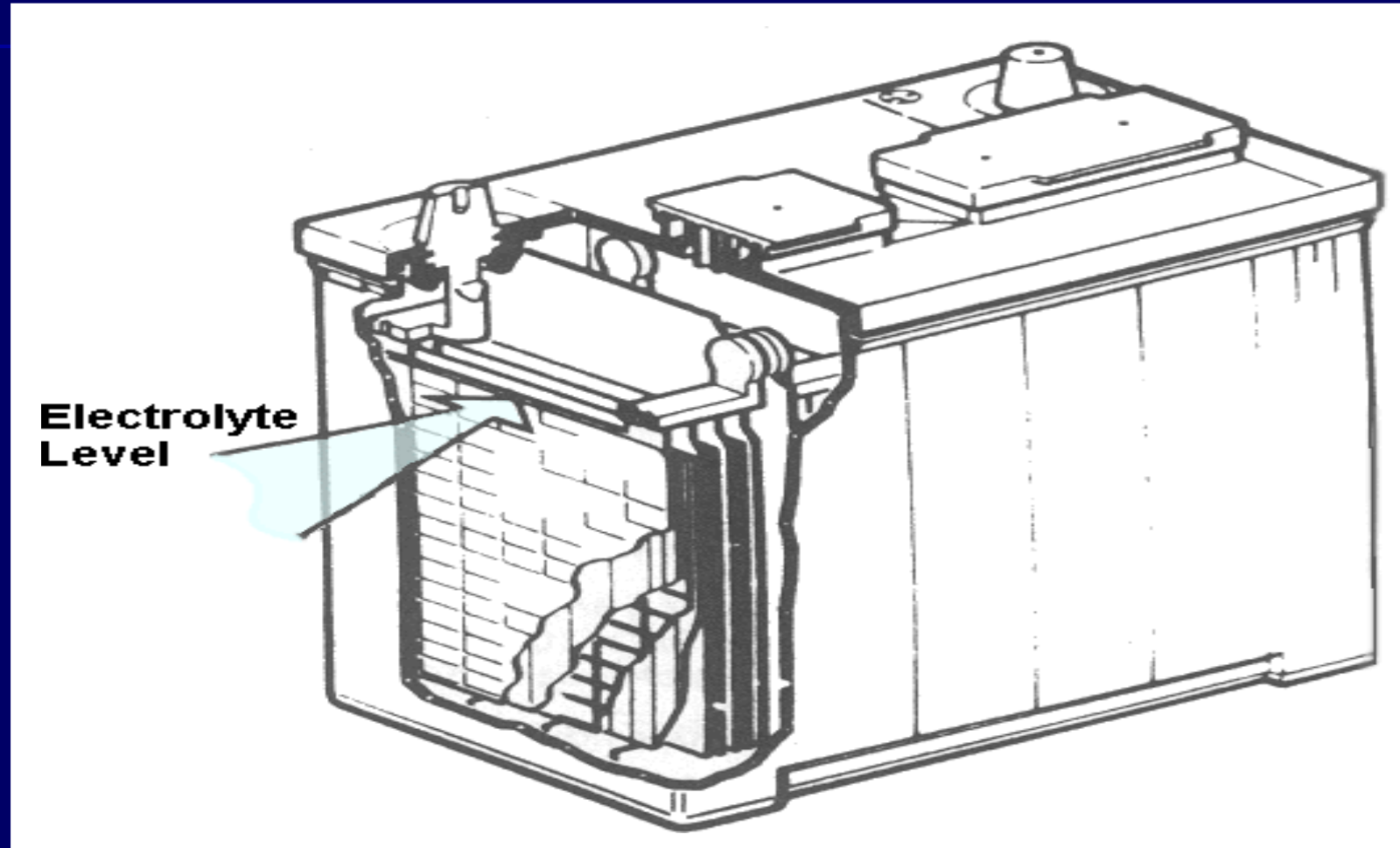
Primary Cell / Dry Battery



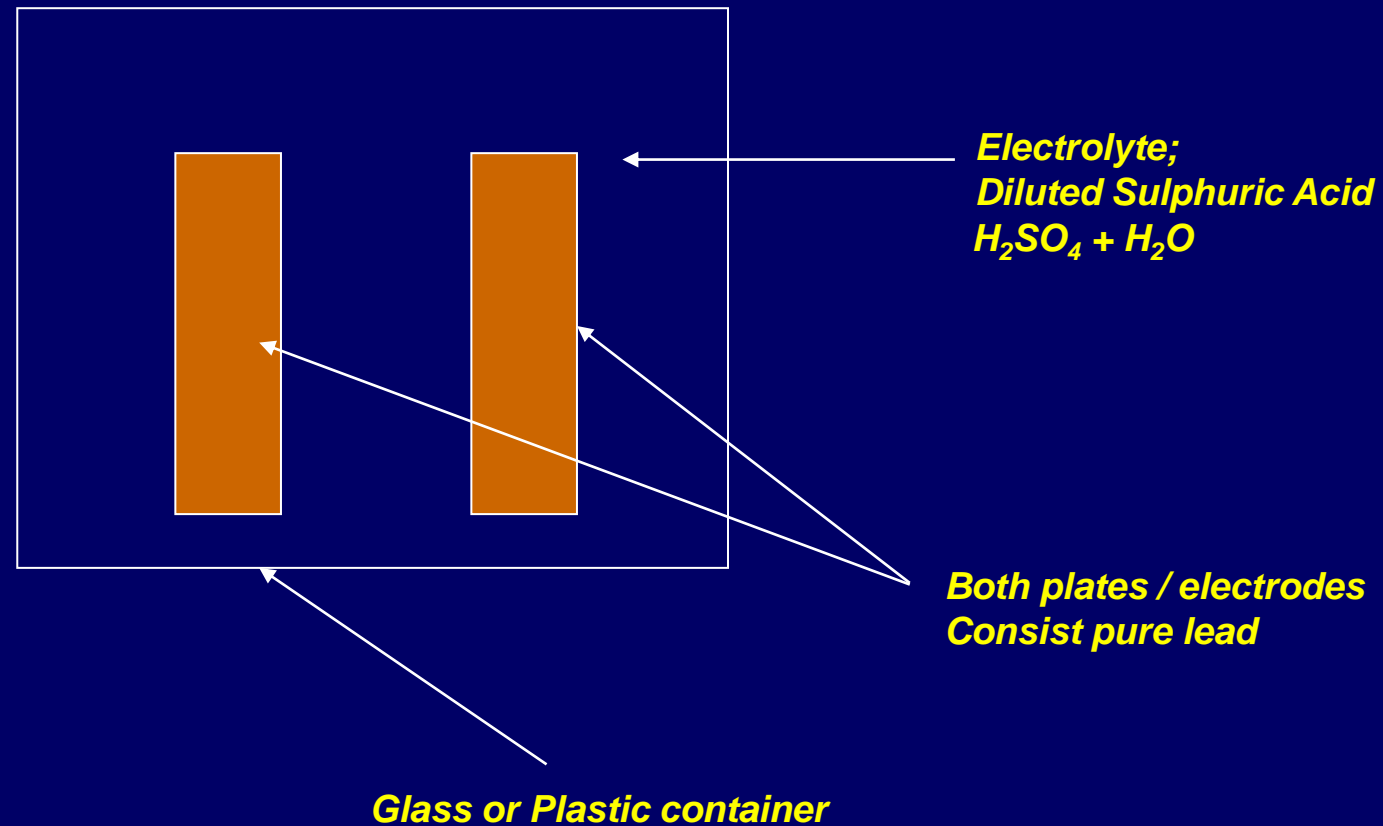


*Cells are linked in **series** to increase output voltage
i.e., a battery of cells*

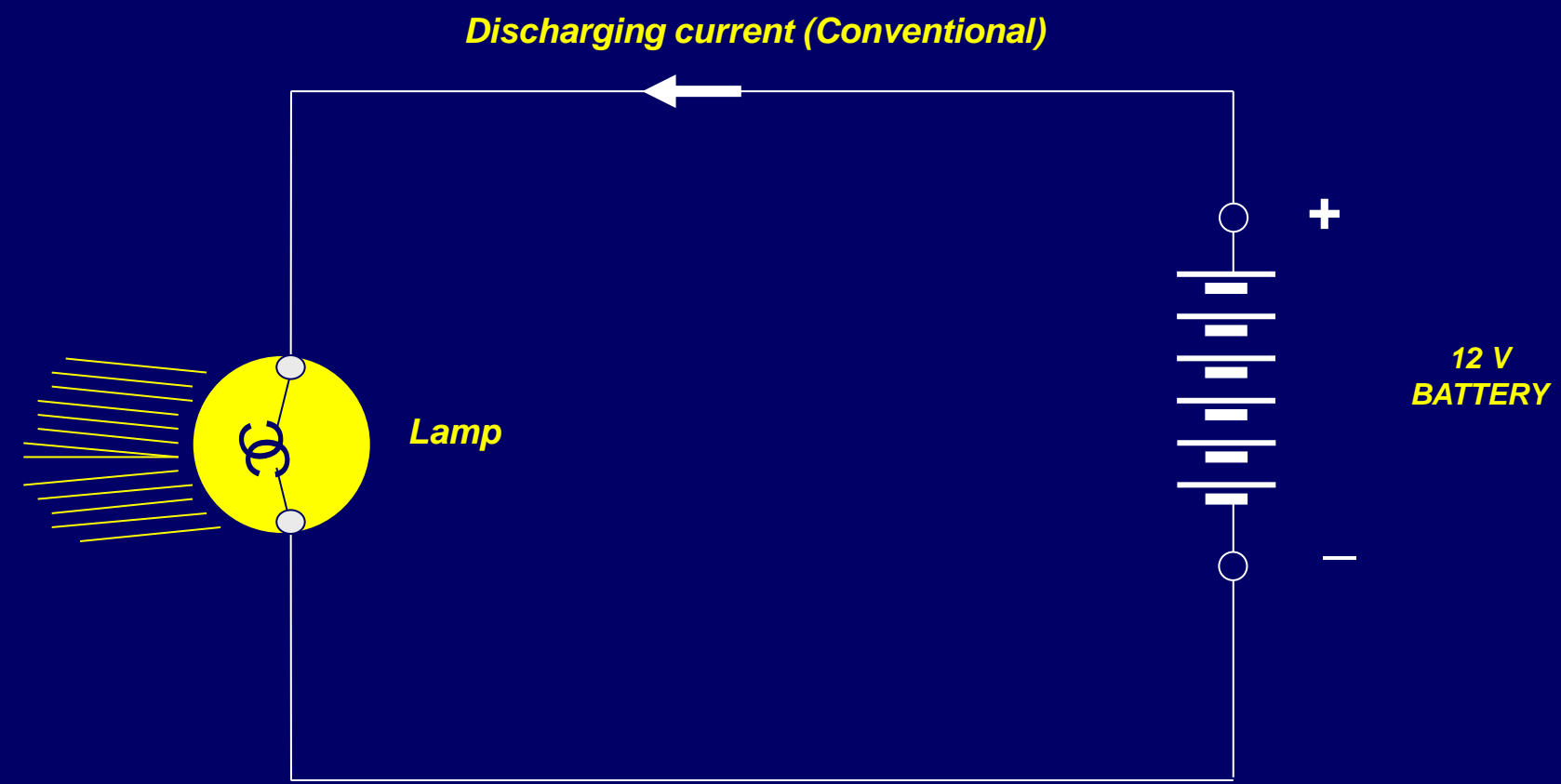
Secondary Cells



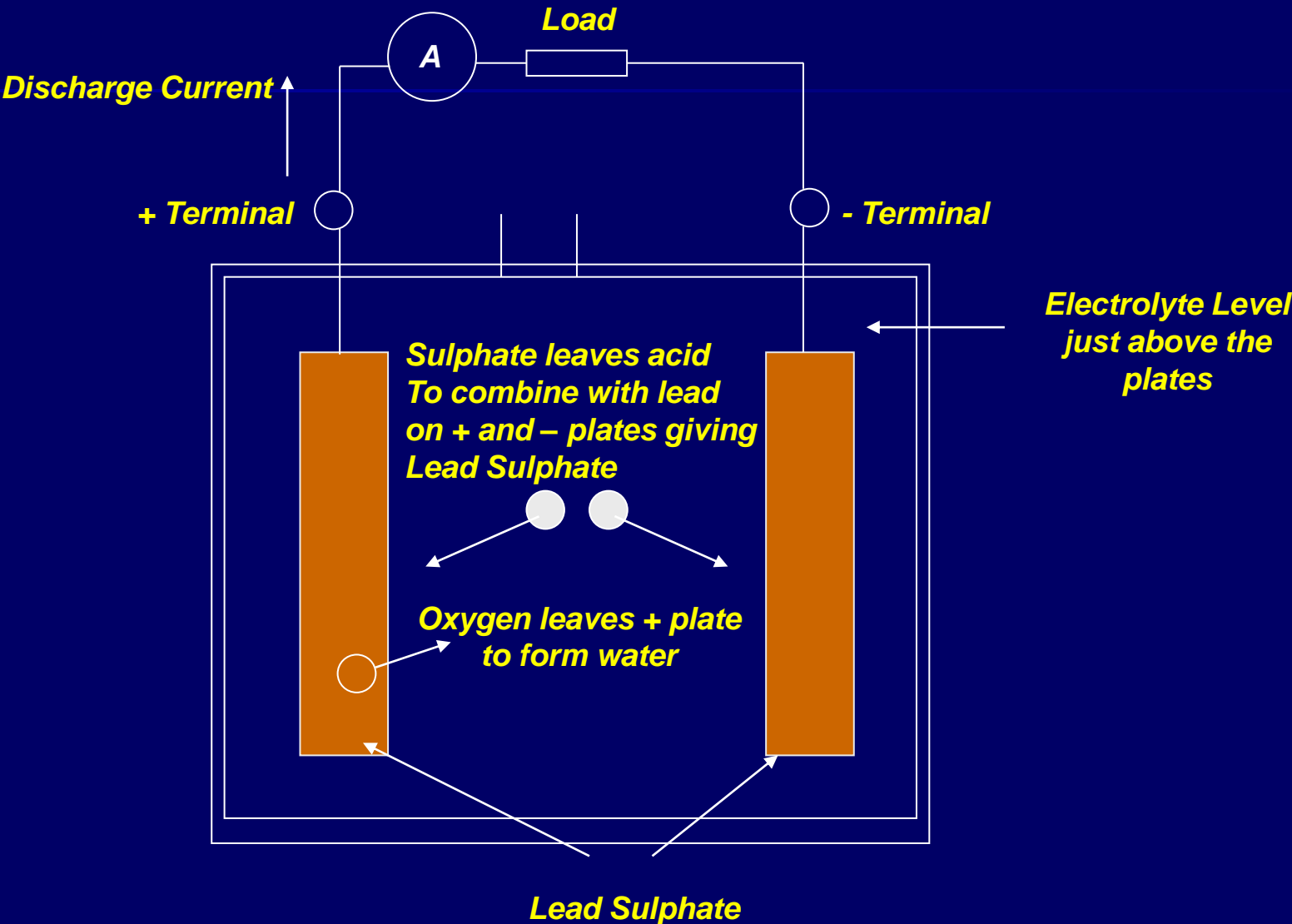
Original Lead Acid cell



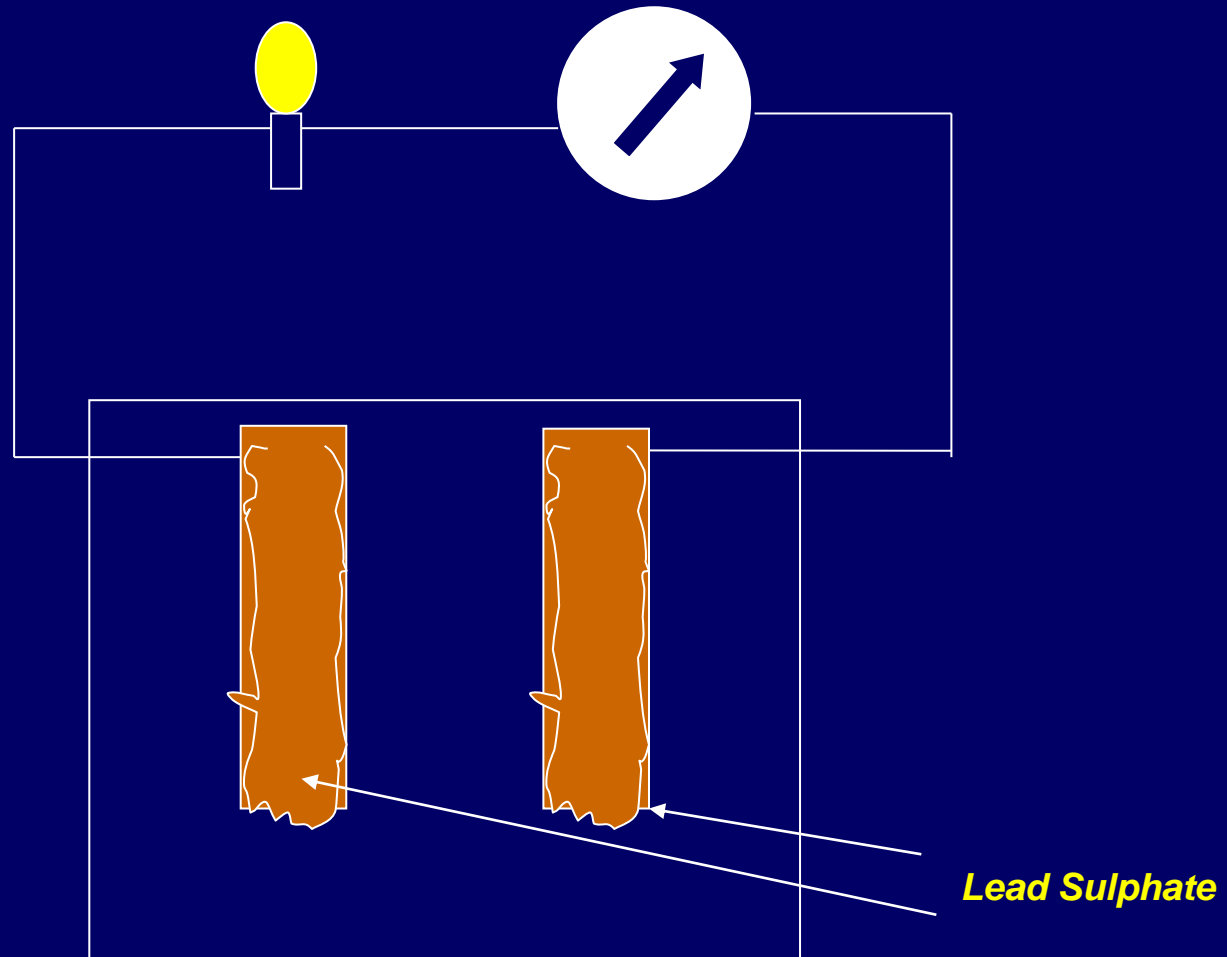
Lead Acid Battery Discharging (Electrolysis)



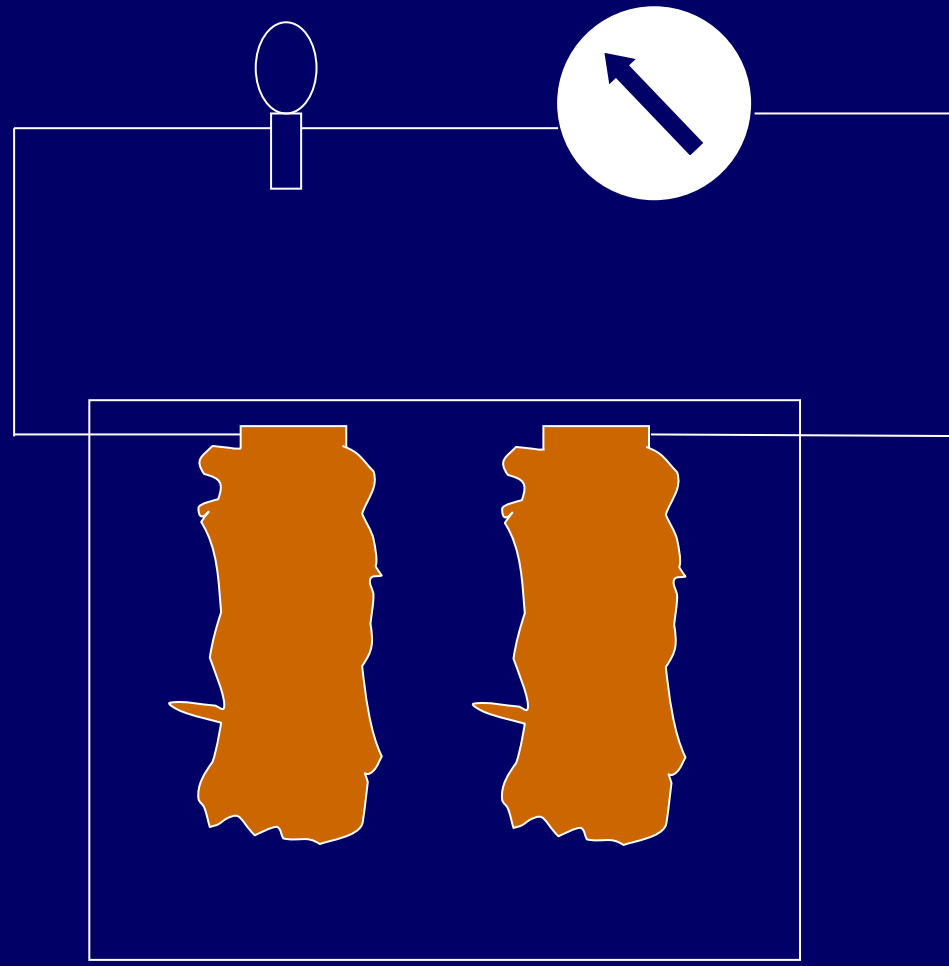
Discharge action of a Lead Acid battery



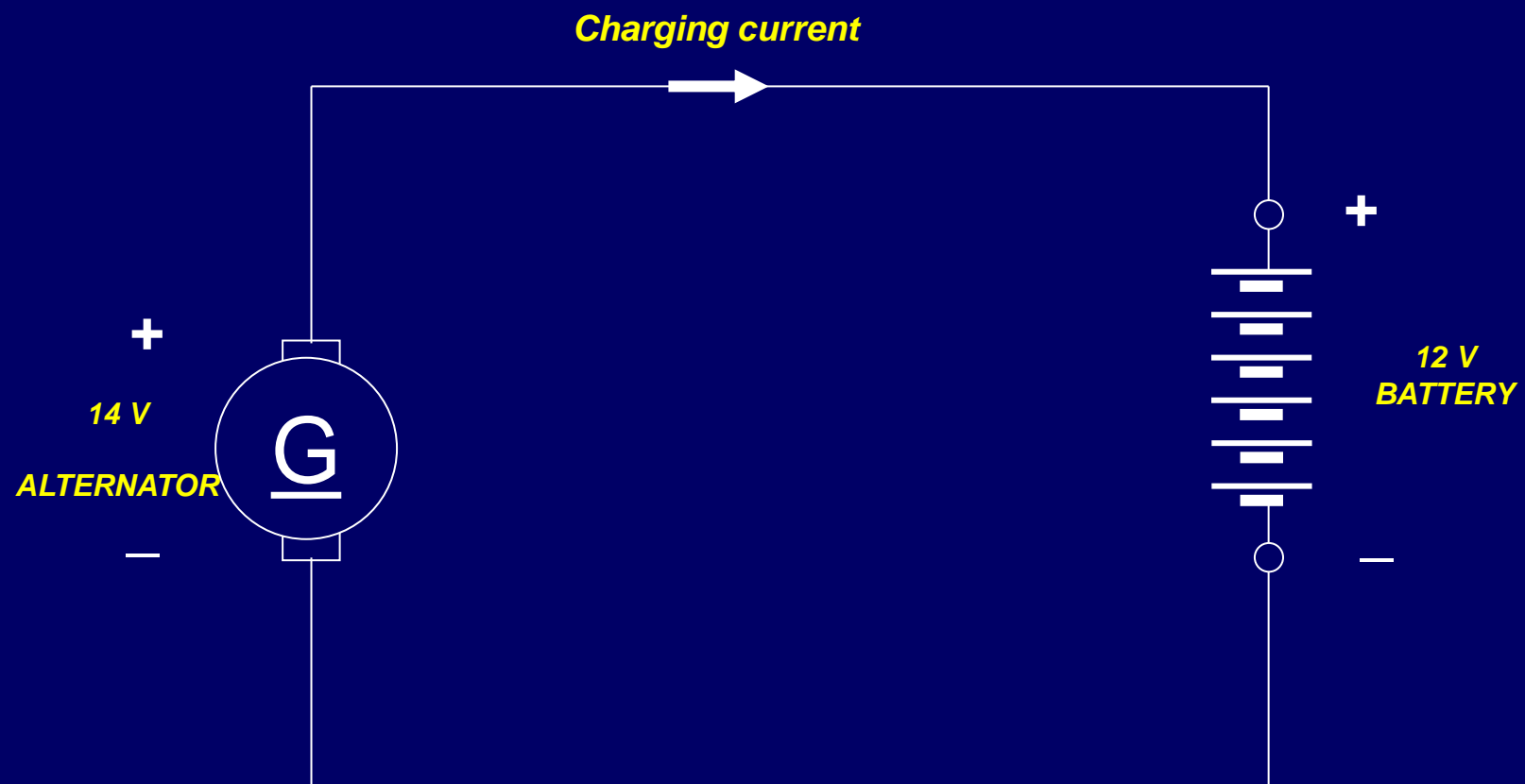
Spongy Lead



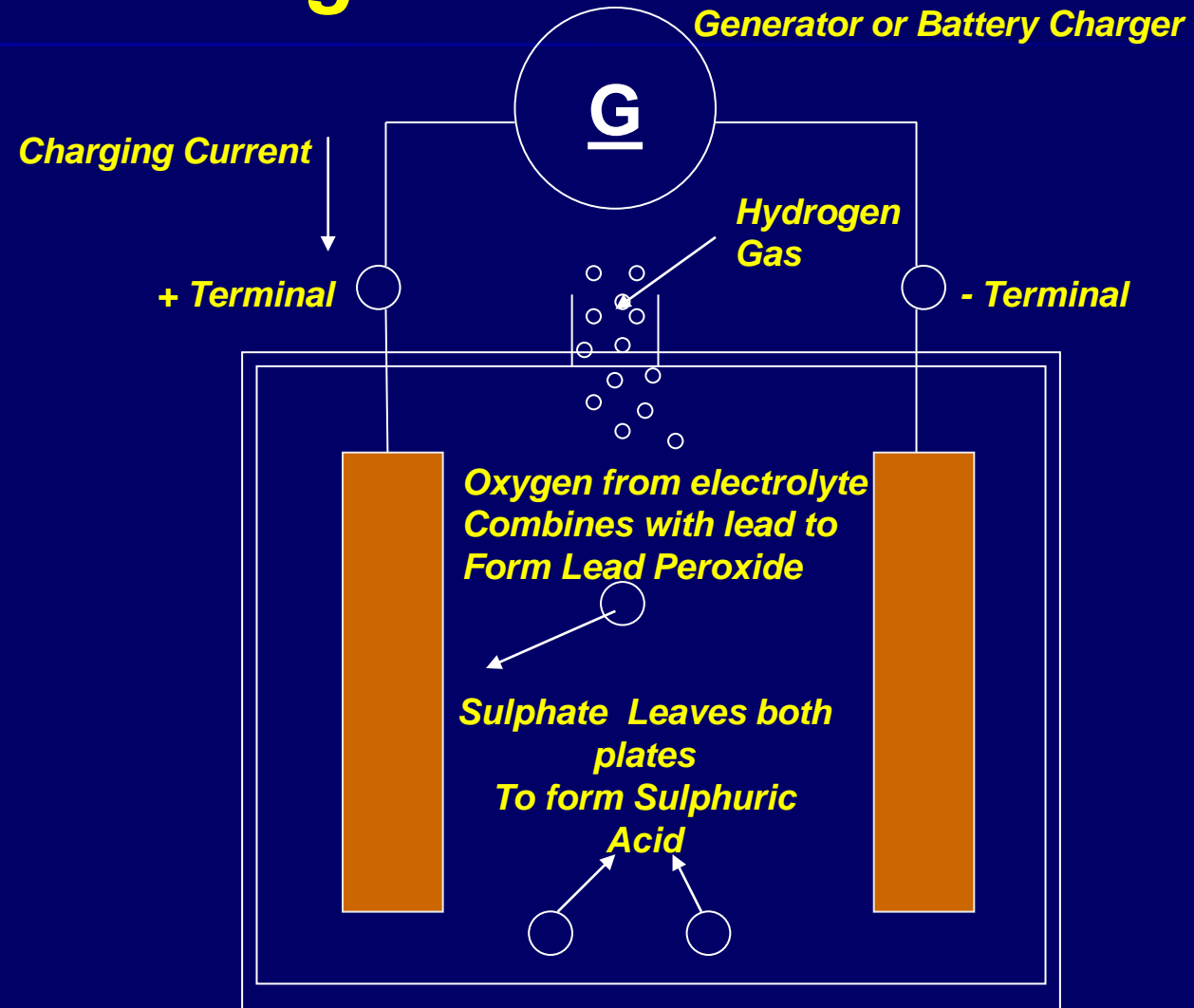
Spongy Lead



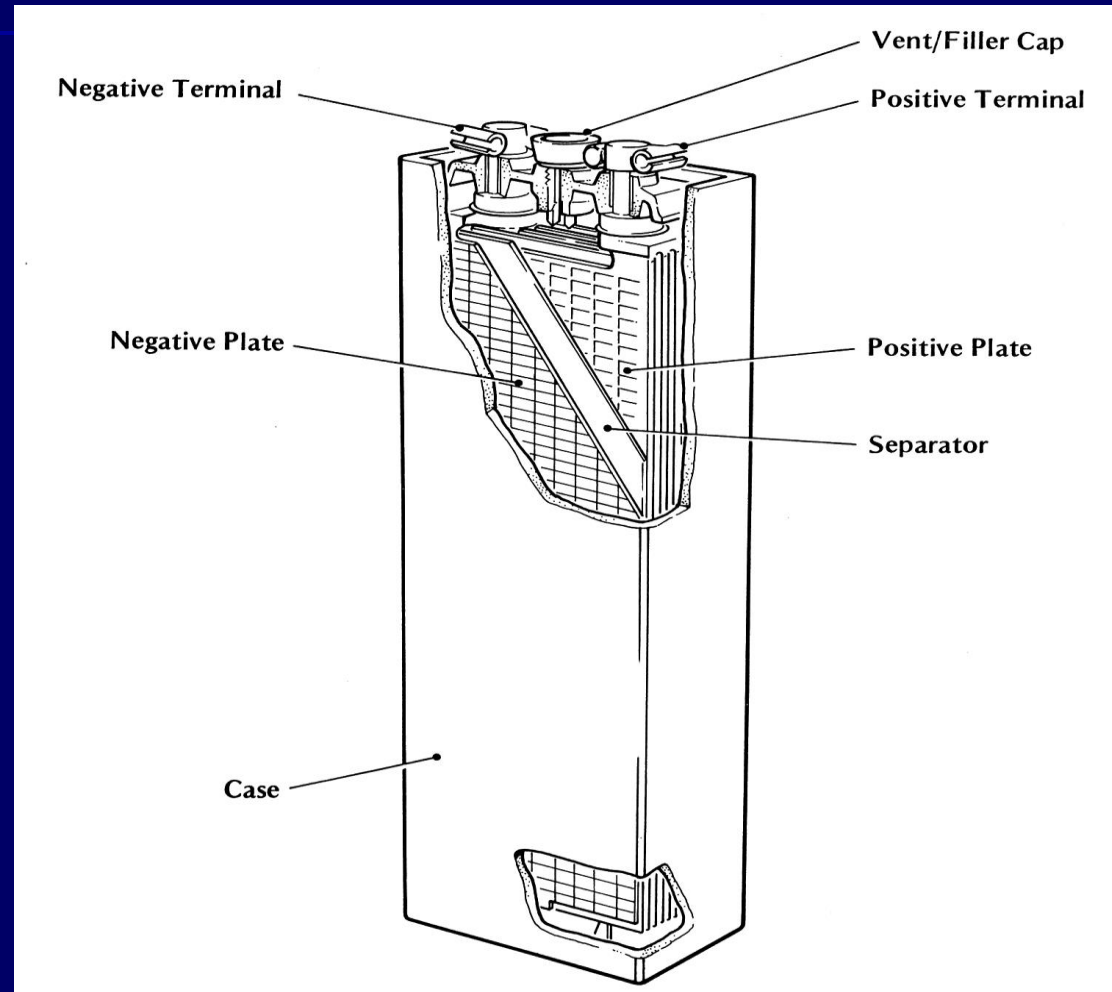
Lead Acid Battery Charging



Lead Acid Battery under Charge



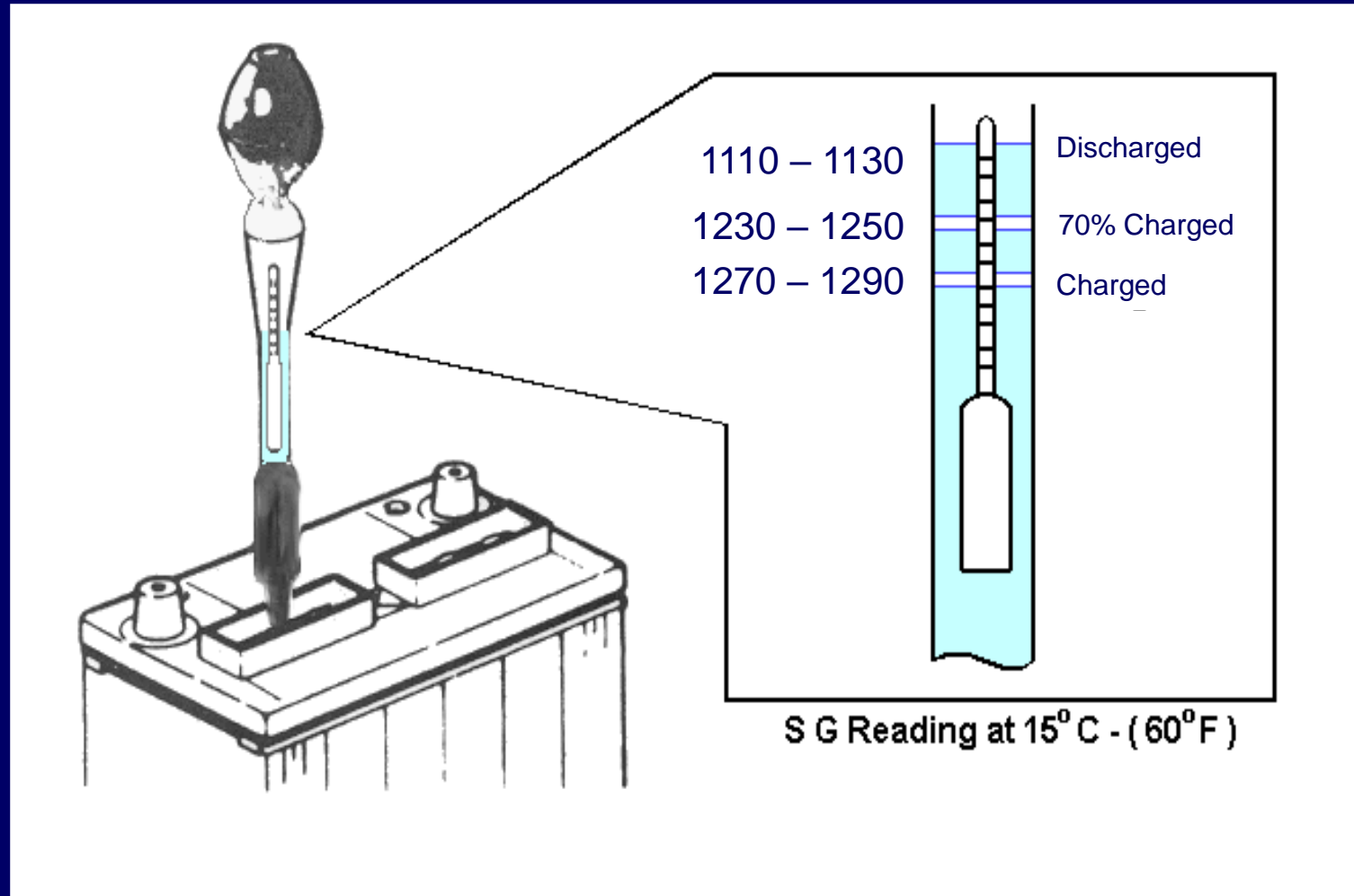
Typical Lead Acid Cell

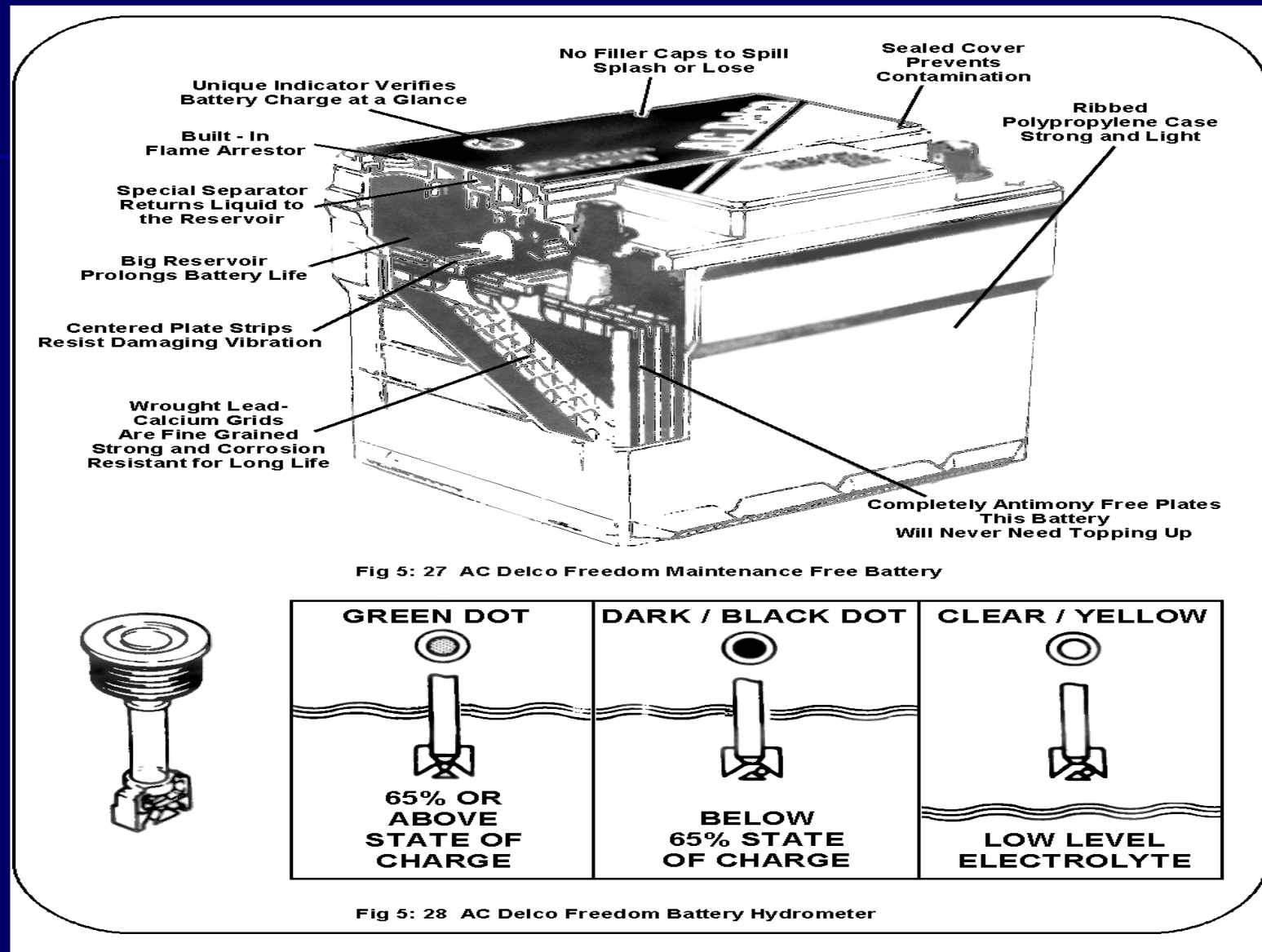


Checking off charge state of a Car Lead Acid battery with a Multimeter (2V cells)

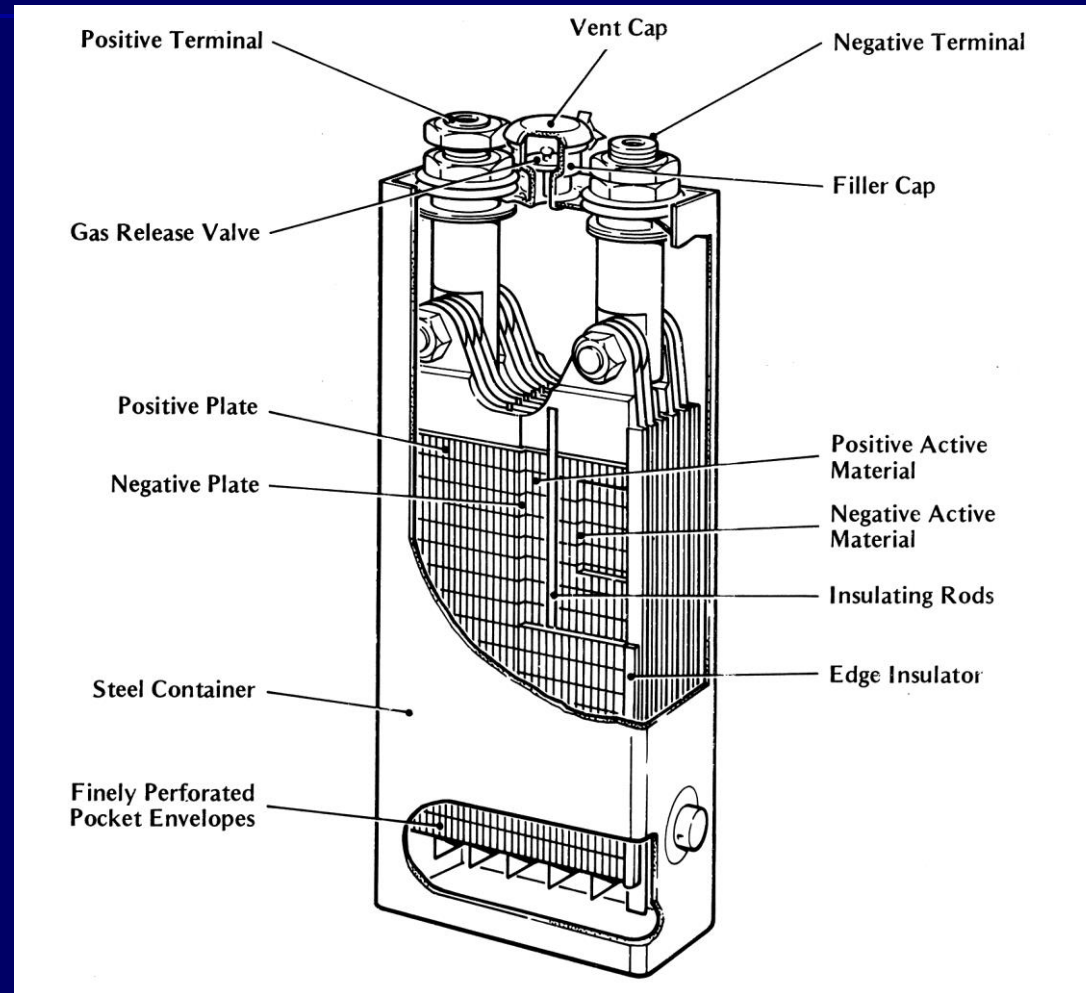
Charge %	Voltage
100%	12.6
75%	12.4
50%	12.2
25%	12.0

Checking off charge state of a Lead Acid battery with a Hydrometer

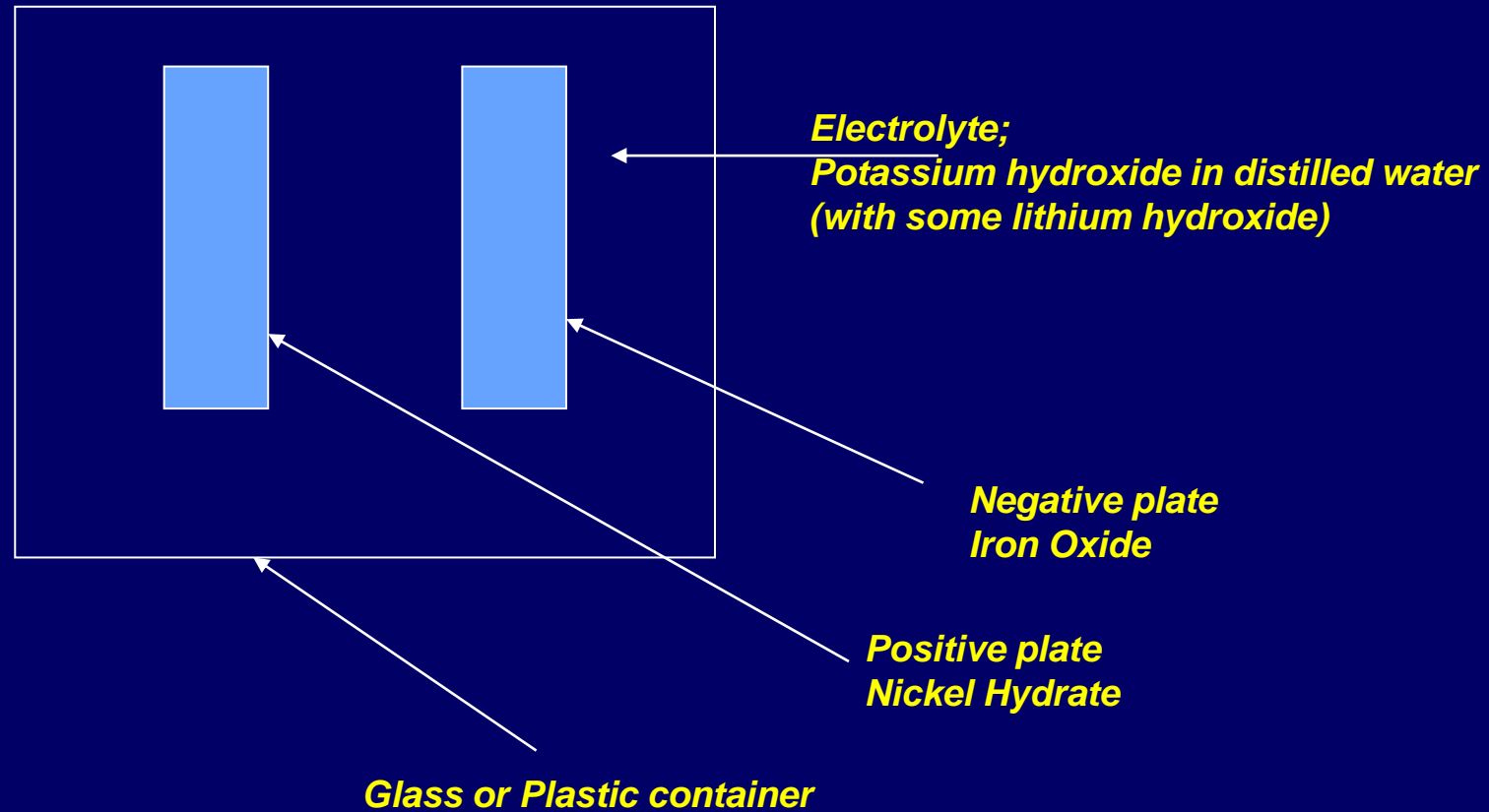




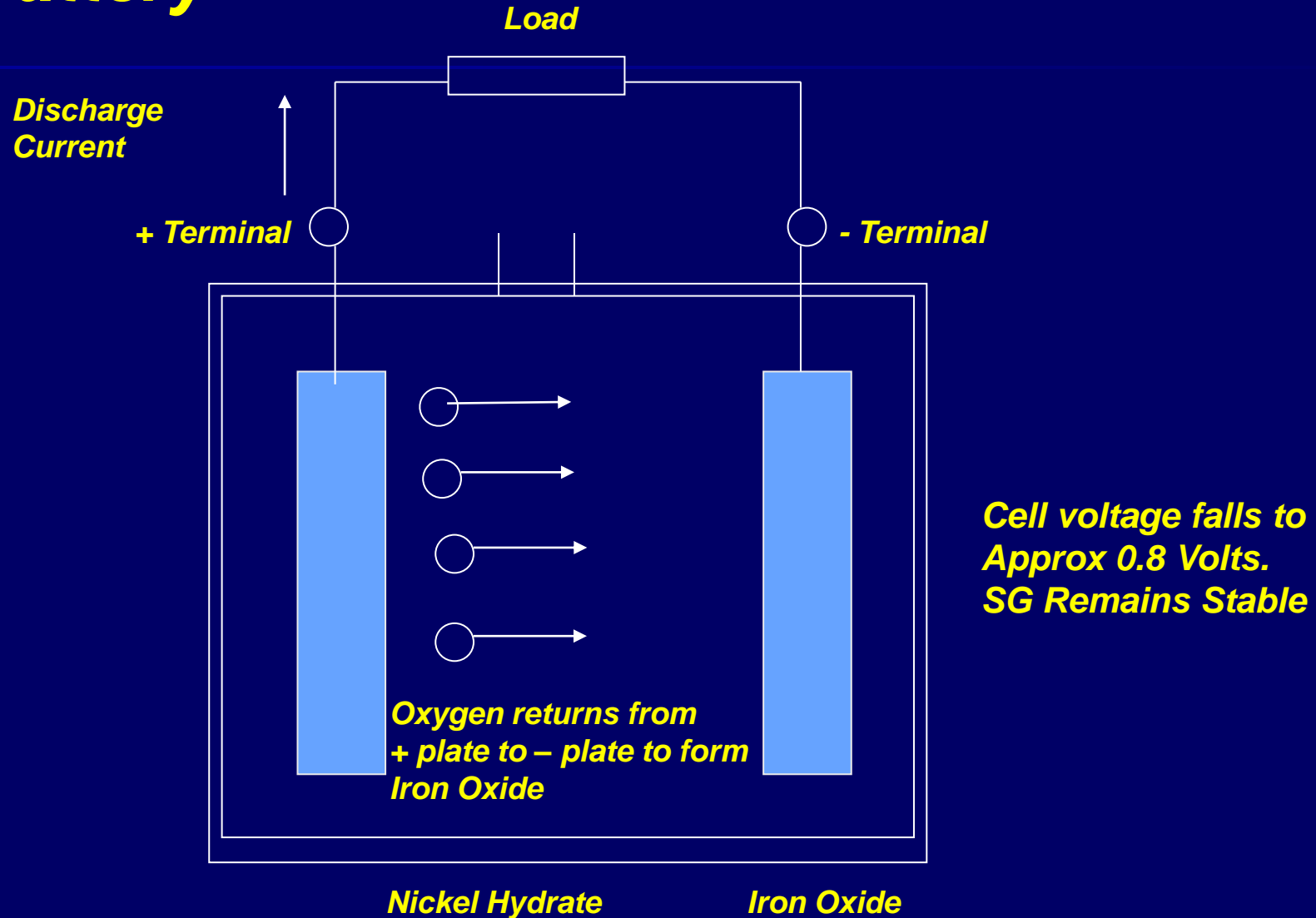
Alkaline Cells



Alkaline cell



Discharge of an Alkaline Battery



Charging a Alkaline Battery

