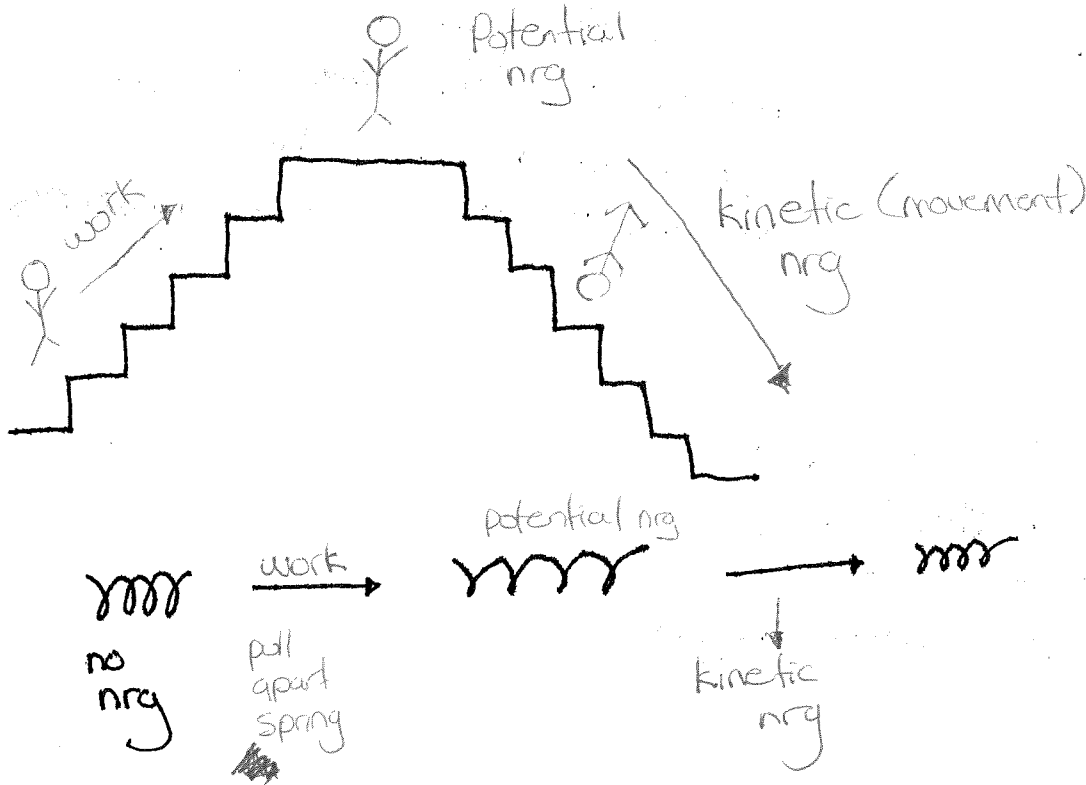


Current Electricity - Lesson 3

Electrical Charge: charge per $6.25 \times 10^{18} e^-$ (gained or lost)
: C, coulomb

Energy: the ability to do Work



Electrochemical Cell: converts chemical nrg \rightarrow electrical nrg by separating +/- charge

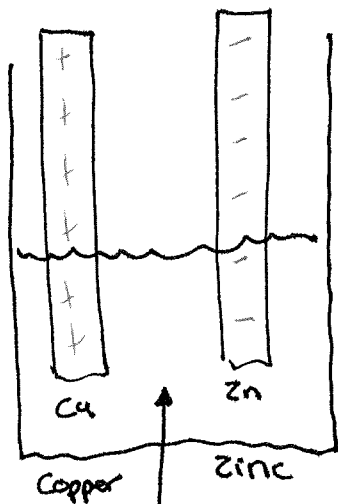
Battery: ≥ 1 electrochemical cell

: contains

Electrodes \rightarrow where the +/- charges collect

usually 2 diff. metals \rightarrow

Electrolytes \rightarrow fluid that moves the charges



OVER PAGE



Electrolyte (conduct charges)

Potential Difference = Voltage (V)

$$V = \frac{\Delta Pe}{C}$$

Δ : change

ΔPe : Potential Energy in a battery is based on the ~~the~~ charge separation and the attractive forces +/- charges

$$V = \frac{\text{how far apart R the charges}}{\text{how many charges}}$$