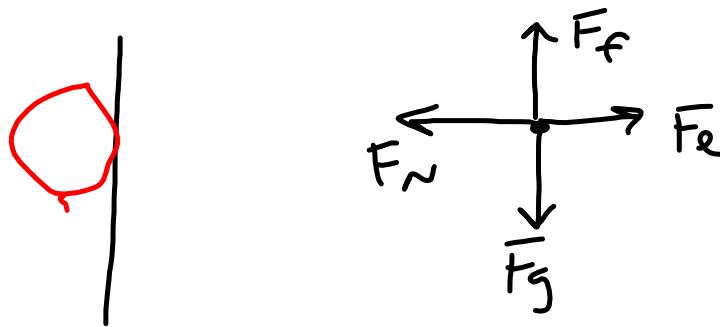


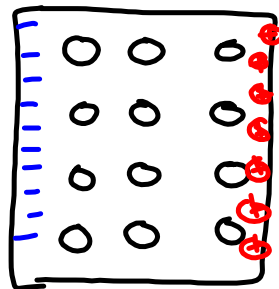
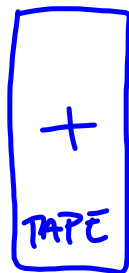
FBD of Balloon on Board



STICKY TAPE LAB Discussion

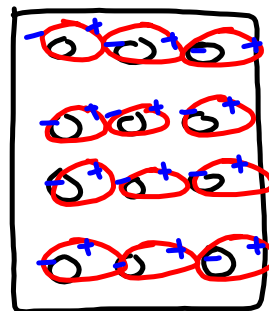
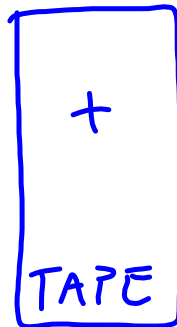
- Ripping tape of table transferred charge
- More impact on foil than paper \rightarrow e^- in foil move much easier

FOIL



○ nuclei
- electrons
⊕ holes

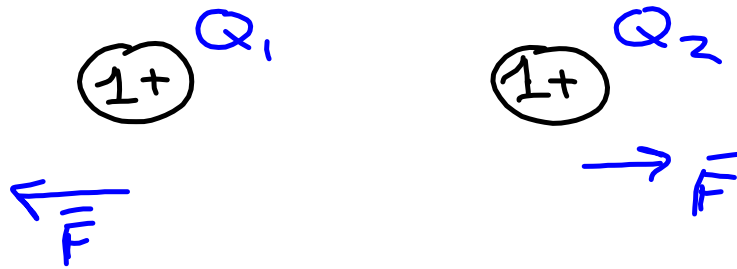
PAPER



(from covalent bonds in the paper)

Movement of e^- in foil and slight movement of e^- in paper is called polarization.

Coulomb Force Law



$$|\vec{F}| = F = \frac{1}{4\pi\epsilon_0} \frac{|Q_1 Q_2|}{r^2}$$

constant

$$\epsilon_0 = 8.85 \times 10^{-12} \text{ C}^2/\text{N}\cdot\text{m}^2$$

$Q \rightarrow$ charge [C] Coulomb

$F \rightarrow$ force [N]

$r \rightarrow$ distance between charges [m]