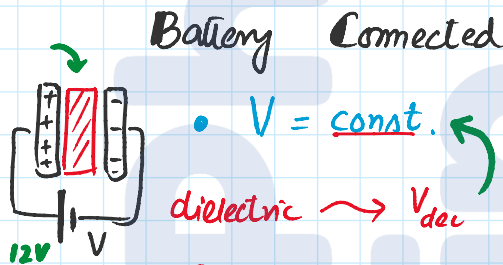
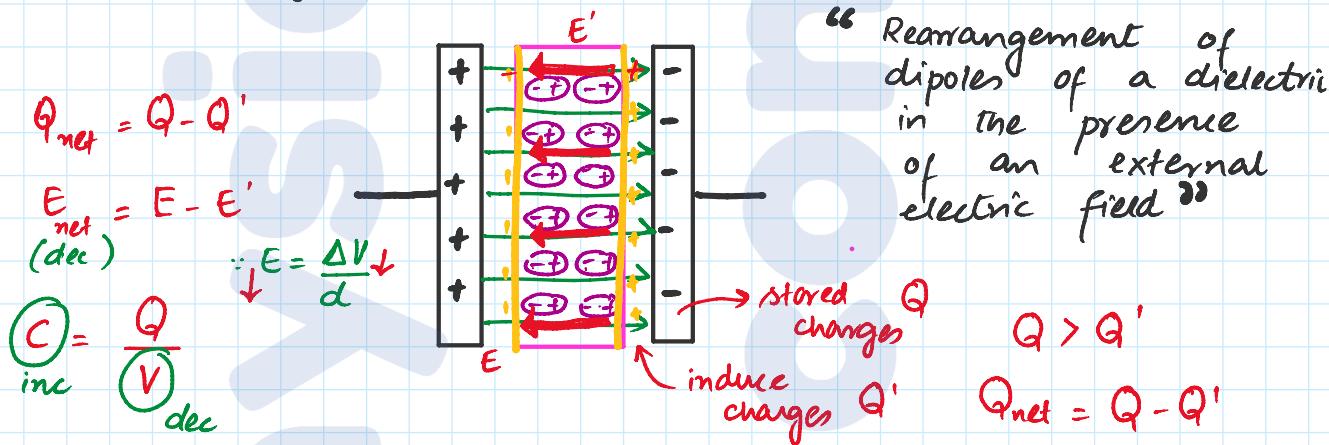
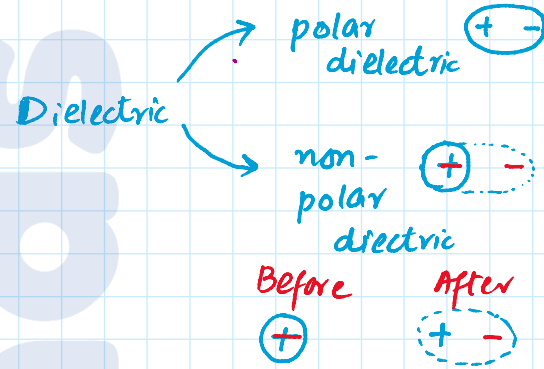
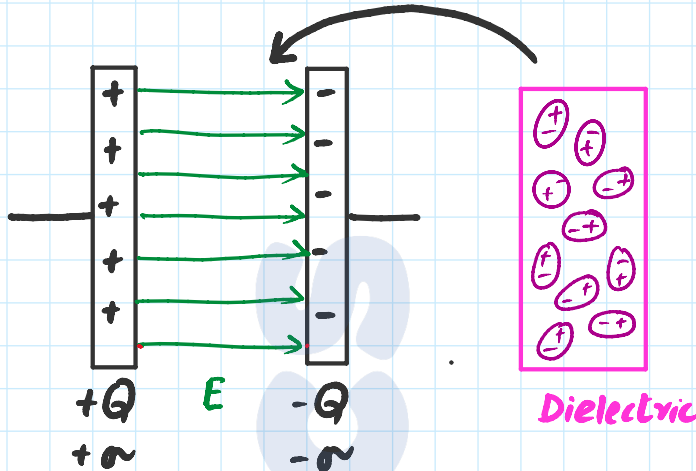


Electric Polarization $\rightarrow$ effect of dielectric $\rightarrow C_{inc}$ on capacitance



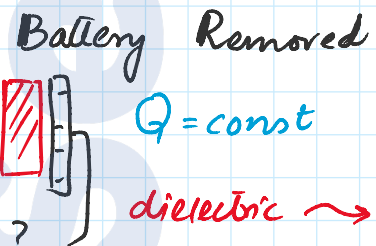
$V = \text{const.}$
 dielectric $\rightarrow V_{dec}$
 $Q_{inc} \rightarrow C_{inc}$
 $C_{inc} = \frac{Q_{inc}}{V_{const}}$
 $Q = inc.$
 $C = inc.$

$E = \frac{\sigma}{\epsilon_0}$

$U = \frac{1}{2} QV$

- $E = \text{const}$
- $\sigma = \text{const}$
- $U = inc.$ (energy stored)

$U = \frac{1}{2} QV$



$Q = \text{const}$
 dielectric $\rightarrow V_{dec}$
 $C_{inc} = \frac{Q_{const}}{V_{dec}}$
 $V = dec$
 $C = inc$

- $E = dec$
- $\sigma = dec.$
- $U = dec.$