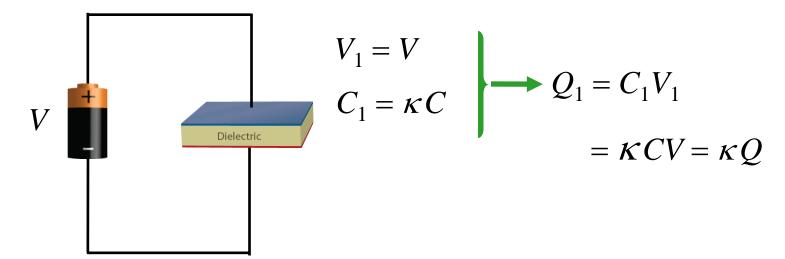
## Messing with Capacitors

If connected to a battery V stays constant



If isolated then total Q stays constant

$$Q_{1} = Q$$

$$C_{1} = \kappa C$$

$$Q_{1} = Q_{1}/C_{1}$$

$$Q_{1} = Q_{1}/C_{1}$$

$$Q_{1} = Q_{1}/C_{1}$$

$$Q_{1} = Q_{1}/C_{1}$$

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