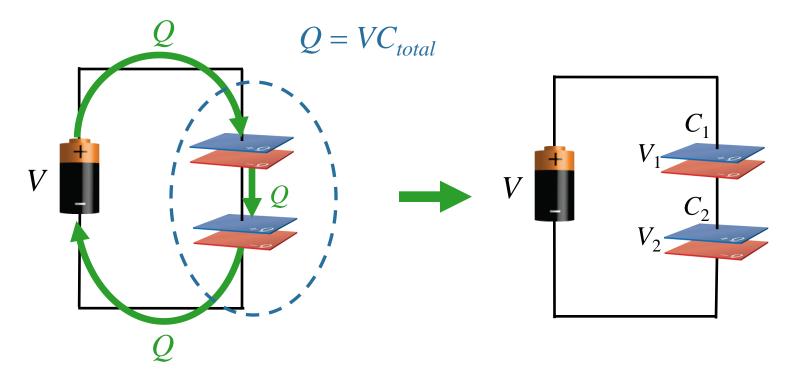
Series Capacitor Circuit



Key point: Q is the same for both capacitors Key point: $Q = VC_{total} = V_1C_1 = V_2C_2$ Also: $V = V_1 + V_2 \longrightarrow Q/C_{total} = Q/C_1 + Q/C_2$ $\frac{1}{C_{total}} = \frac{1}{C_1} + \frac{1}{C_2}$