Electrostatics	$F = qE$ F = electric force q = electric charge E = electric field	$U = Fd$ U = electric potential energy F = electric force d = distance between particle and source of electric field	$V = \frac{U}{q}$ V = electric potential U = electric potential energy q = electric charge
Coulomb's Law	$F_e = k\frac{q_1 q_2}{d^2}$ F_e = electric force k = 8.99 x 10^9 N • $\frac{m^2}{C^2}$ q = electric charge d = distance between charges		
Electric Fields	$E = \frac{F_e}{q}$ E = electric field F_e = electric force q = electric charge		

Electric Potential Difference	$U = qEd$ U = electric potential energy q = electric charge E = electric field d = distance between charges	$V = k\frac{q}{d}$ V = electric potential k = 8.99×10^9 N • $\frac{m^2}{C^2}$ q = electric charge d = distance between charges	$\Delta V = V_2 - V_1$ ΔV = electric potential difference (voltage) V_2 = electric potential at second position V_1 = electric potential at first position
	$\Delta V = \frac{\Delta U}{q}$ ΔV = electric potential difference (voltage) ΔU = change in electric potential energy q = electric charge	$\Delta V = Ed$ ΔV = electric potential difference (voltage) E = electric field d = distance between charges	$W = q\Delta V$ W = work q = electric charge ΔV = electric potential difference (voltage)
Ohm's Law	$I = \frac{\Delta q}{t}$ I = current Δq = change in electric charge t = time	$I = \frac{\Delta V}{R}$ I = current ΔV = electric potential difference (voltage) R = resistance	
Electric Circuits	$R_{eq} = R_1 + R_2 + R_3 + \ldots R_n$	$I = \frac{V}{R_{eq}} = \frac{V}{R_1 + R_2 + R_3 + \ldots R_n}$ I = current	$\frac{1}{R_{eq}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \ldots \frac{1}{R_n}$ R_{eq} = equivalent resistance in

	R_{eq} = equivalent resistance in series circuit R_n = resistance in nth resistor	ΔV = electric potential difference (voltage) R_{eq} = equivalent resistance in series circuit	parallel circuit R_n = resistance in nth resistor
	$I = I_1 + I_2 + I_3 + \ldots I_n$ I = equivalent current in parallel circuit I_n = current in nth branch		