

G11_Basic Electricity

REMEMBER!

$$E = VQ$$

↑ $Q = It$

$$E = \frac{V^2 t}{R} \quad \leftarrow I = \frac{V}{R} \quad \boxed{E = VIt} \quad \xrightarrow{V = IR} E = I^2 R t$$

Power (chapter 9): $P = \frac{\Delta E}{\Delta t}$

P = power (watts, W)
 E = energy (joules, J)
 t = time (seconds, s)

Electrical power: $P = IV$

P = power (watts, W)
 I = current (amperes, A)
 V = voltage (volts, V)

Fill in the BLANK.

V (volt)	I (Ampere)	t (second)	R (Ohm)	W (Joule)	P (Watt)
3	2	0.5			
	4	1	6		
8	0.5			12	
4		2	1		16
	0.2	0.5		4	8