

energy
specific heat capacity
mass
change in temperature

$$E = mc\Delta T$$

J
g J°C⁻¹ g⁻¹ °C

calibration factor
(also called calibration constant)

$$Cf = \frac{E}{\Delta T}$$

J°C⁻¹
J
°C

voltage
current
time

$$E = Vit$$

J
V
A
s

charge

$$Q = It$$

C
A
s

power

$$E = Pt$$

J
W
s

molar enthalpy change

$$\Delta H = \frac{E}{n}$$

kJ mol⁻¹
kJ
mol

$$\text{Heat of Combustion} = \frac{E}{m} \text{ or } \frac{E}{V}$$

When there's no way to find the calibration factor, Cf , use $m \times c$ instead