

Formulas and Constants

$$Q = m c \Delta T$$

$$Q = m L$$

$$Q = \Delta U - W$$

$$W = P (\Delta V)$$

$$K = ^\circ\text{C} + 273$$

$$\text{Efficiency} = \frac{T_H - T_C}{T_H} \times 100\%$$

$$c_{\text{ice}} = 2.090 \text{ J/g } ^\circ\text{C}$$

$$c_{\text{water}} = 4.184 \text{ J/g } ^\circ\text{C}$$

$$c_{\text{steam}} = 2.01 \text{ J/g } ^\circ\text{C}$$

$$L_f = 333 \text{ J/g for water}$$

$$L_v = 2260 \text{ J/g for water}$$