

Heat Equation

$$Q = m c \Delta T$$

Heat energy (calories)

Mass (g)

Specific heat ($\frac{\text{calorie}}{\text{gram } ^\circ\text{C}}$)

Change in temperature ($^\circ\text{C}$)

Example: How much heat is needed to raise the temperature of 250 grams of water from 20°C to 40°C ?

1. Identify the variables in the equation.

Heat equation: $Q = mc \Delta T$

Q = trying to determine

m = mass of water = 250 grams

c = specific heat of water

= 1 calorie/ $g^\circ\text{C}$

ΔT = $40^\circ\text{C} - 20^\circ\text{C} = 20^\circ\text{C}$

2. Plug the variables into the equation and solve.

$$Q = (250 \cancel{\text{g}} \times 1 \frac{\text{calorie}}{\cancel{\text{g}} \cancel{^\circ\text{C}}} \times (20 \cancel{^\circ\text{C}}))$$

$Q = 5000 \text{ calories}$

Specific Heat Calculation Key

S Baum



Specific Heat Calculation Key:

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