

14

The first law of thermodynamics may be stated in terms of

- ΔU , the **increase** in internal energy of the system,
- Q , the energy transferred **from** the system by heating,
- W , the work done **by** the system.

What is the formula connecting these quantities?

A

$$\Delta U = Q + W$$

B

$$\Delta U = -Q + W$$

C

$$\Delta U = Q - W$$

D

$$-\Delta U = Q + W$$