The first law of thermodynamics



•	• Write an expression for the change in internal energy, ΔE , that occurs w	then a system outputs Δq
	worth of heat and does Δw worth of work	

• Write integrals for the changes in internal energy that occur during (i) an adiabatic transition and (ii) an isochoric transition.

• Give expressions that relate the pressure and temperature to partial derivatives of the internal energy.

• State the first law of thermodynamics