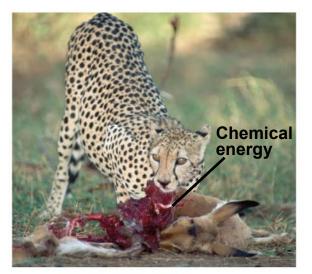
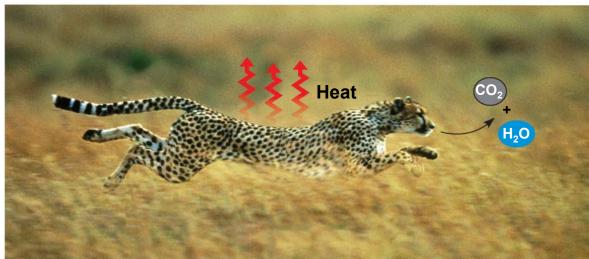


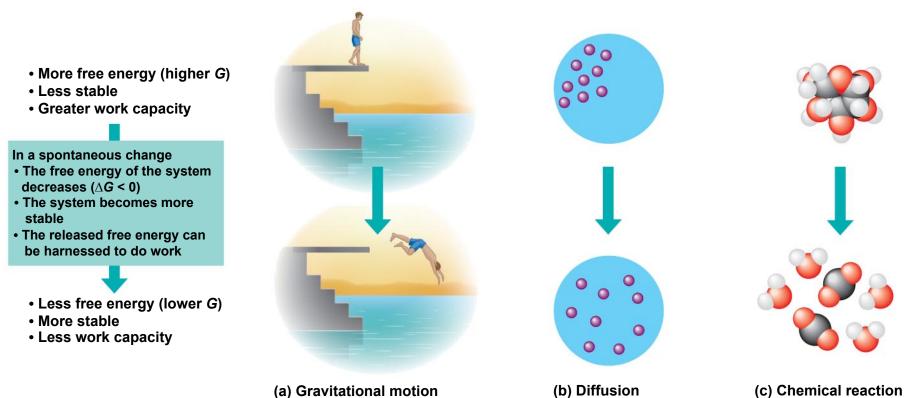
Climbing up converts the kinetic energy of muscle movement to potential energy. A diver has less potential energy in the water than on the platform.

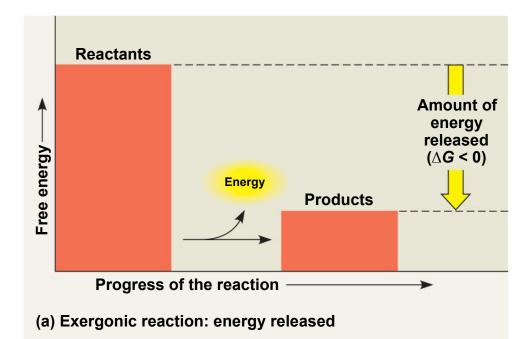


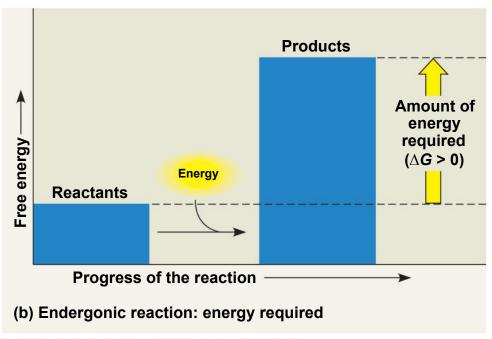


(a) First law of thermodynamics

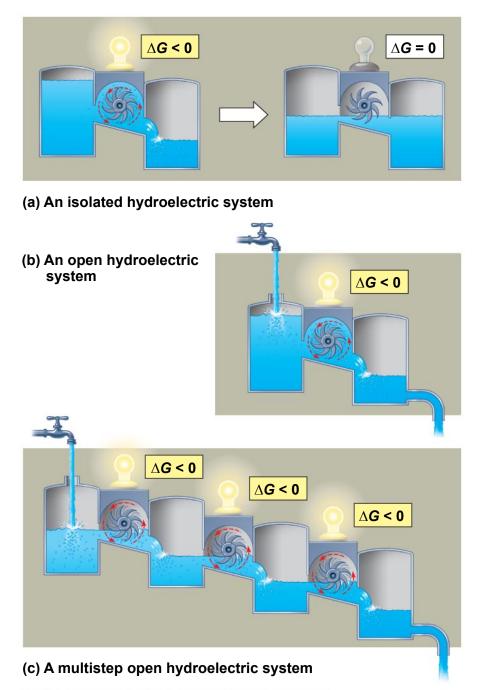
(b) Second law of thermodynamics

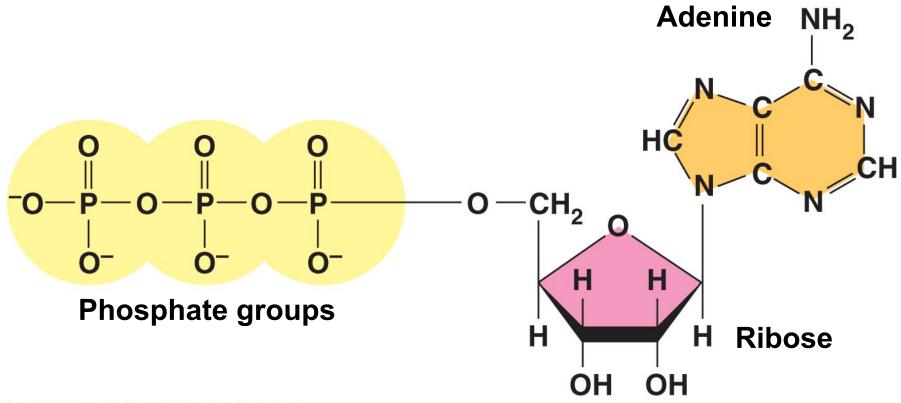


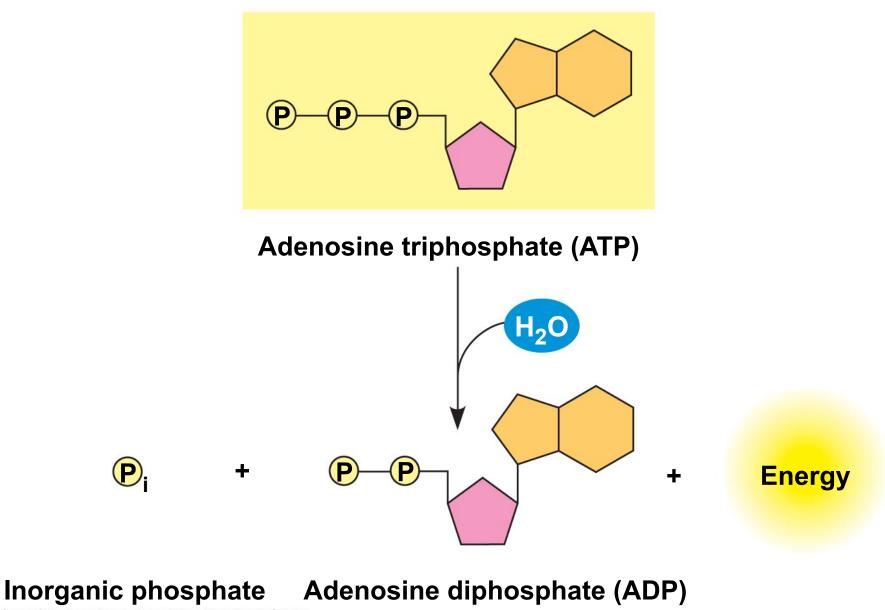


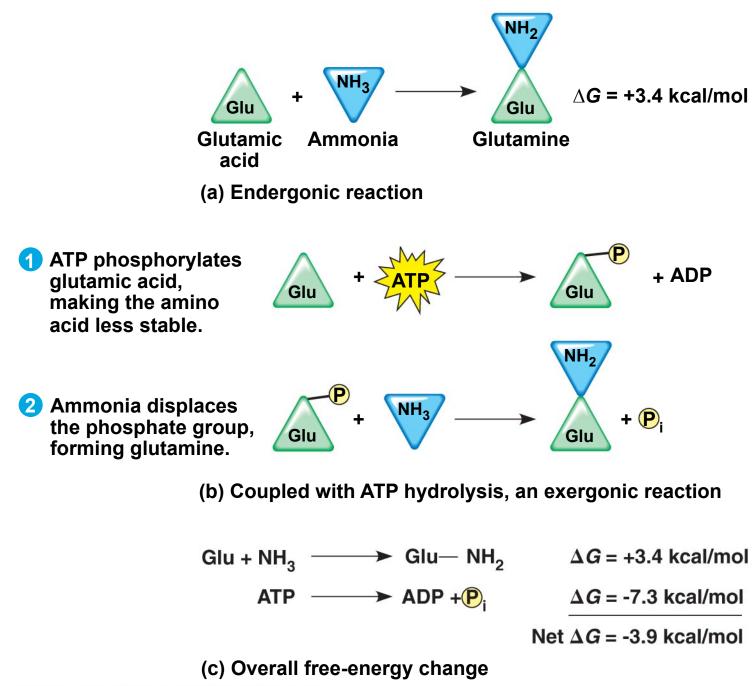


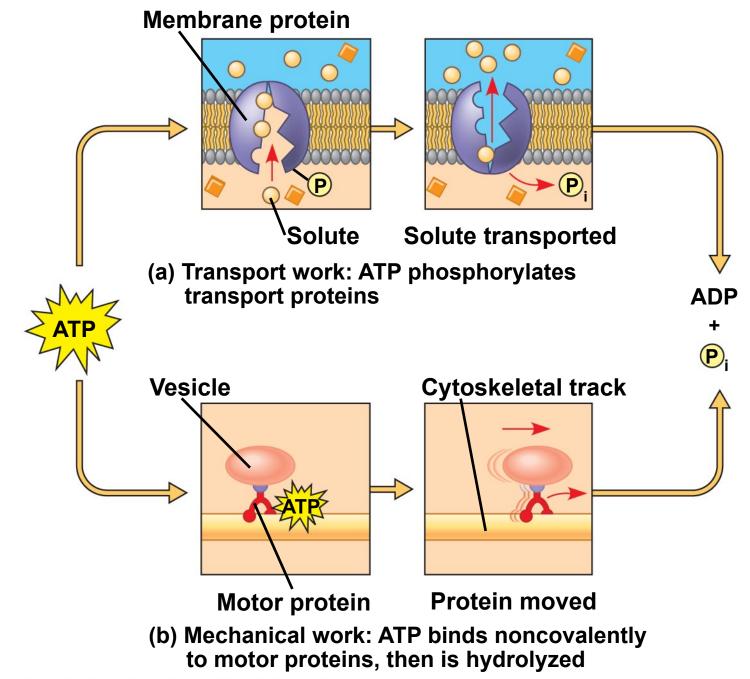
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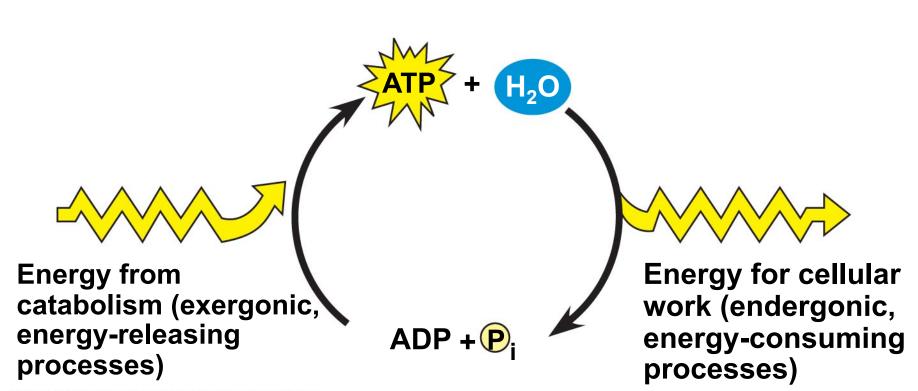


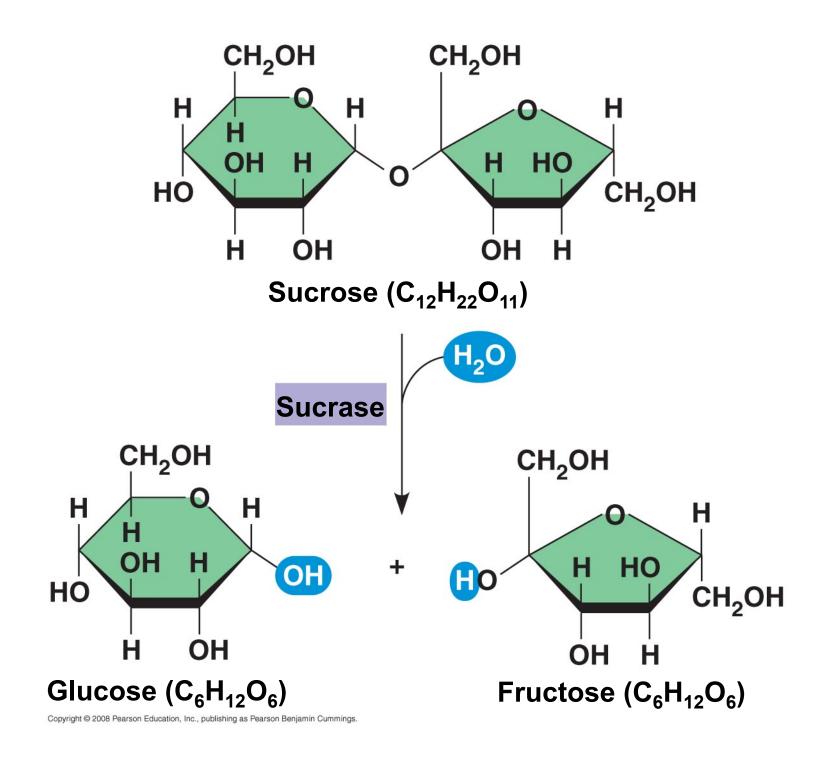


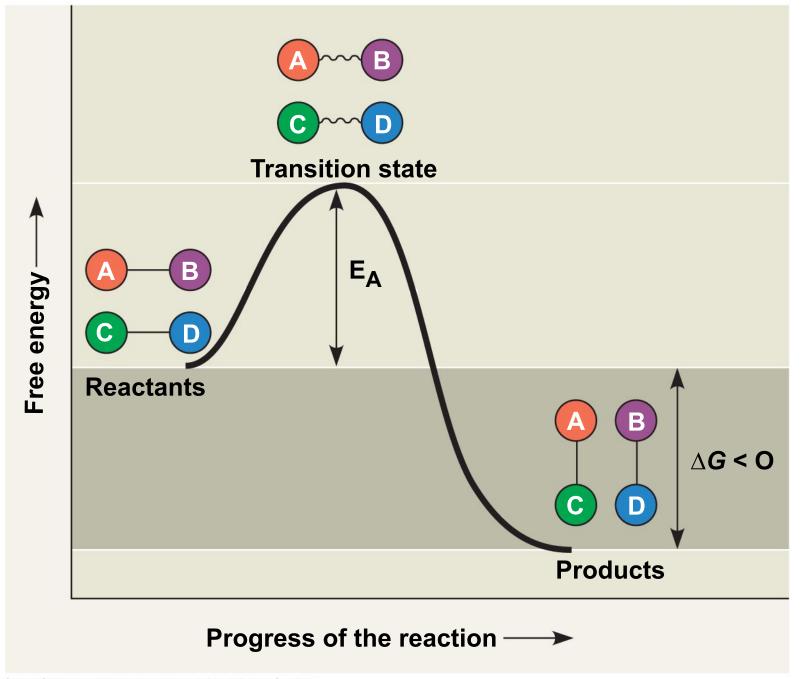


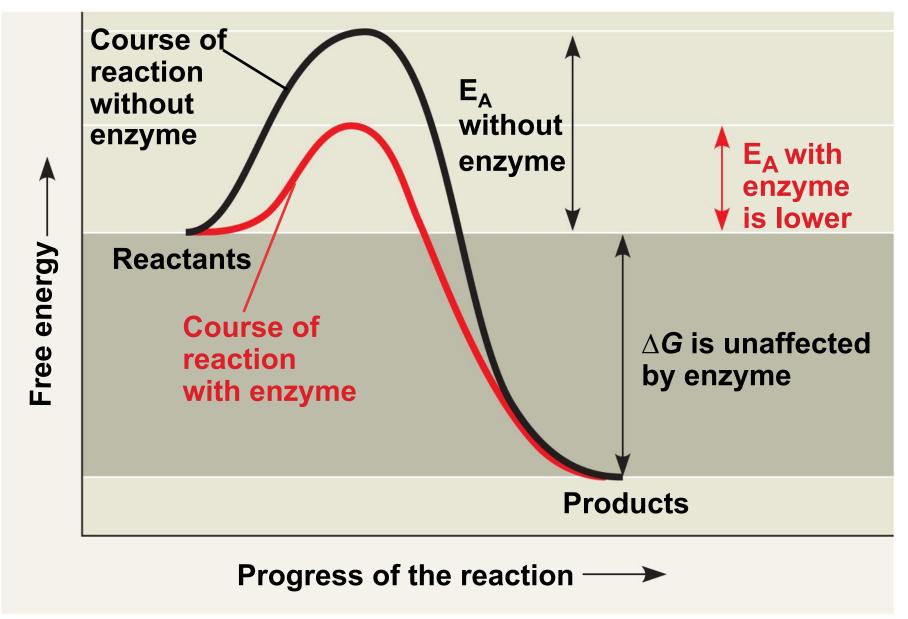


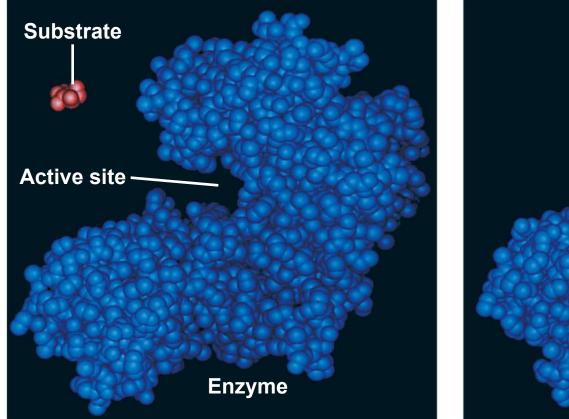


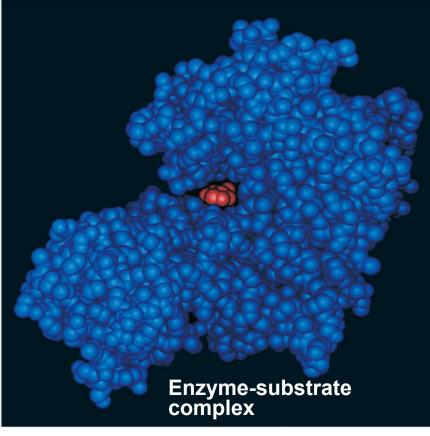




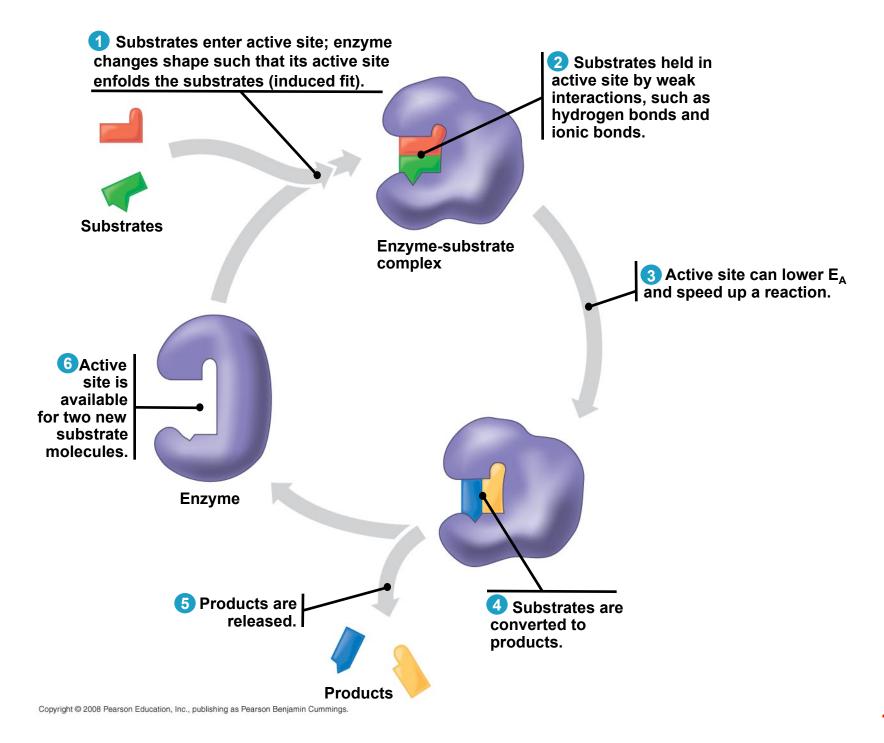


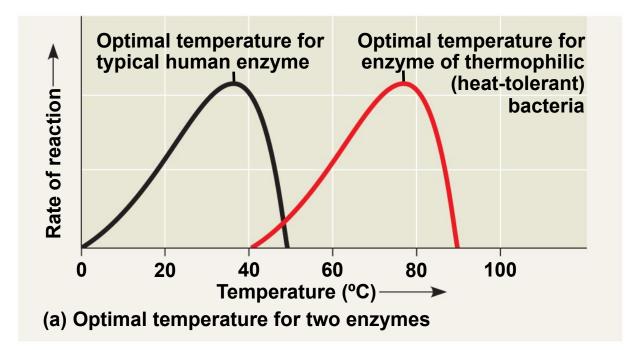


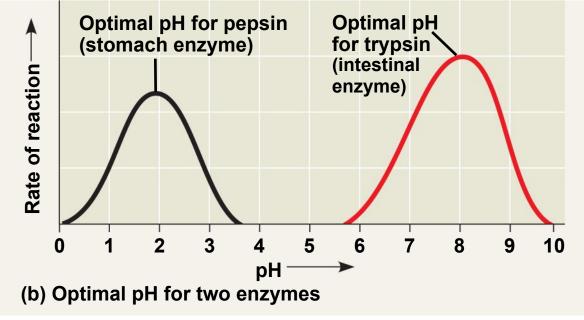




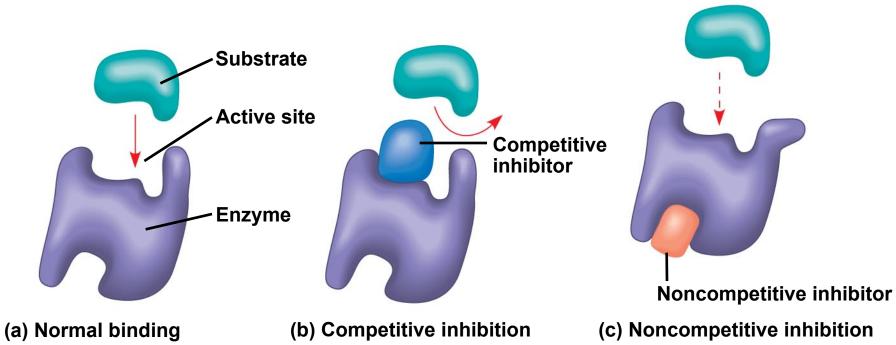
(b)

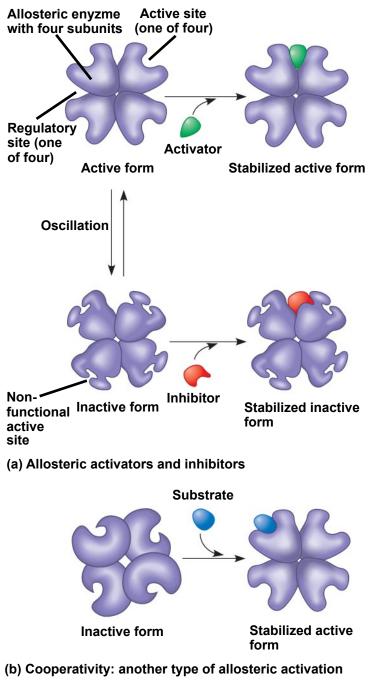


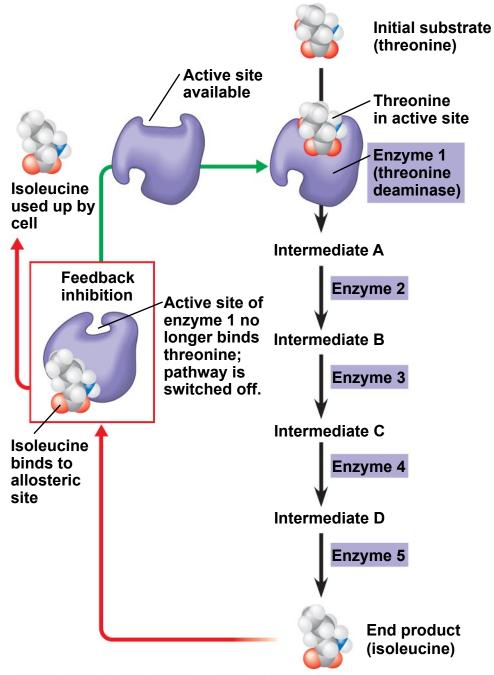




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