

Ch8 Vocab

Metabolic pathway	Exergonic reaction	Induced fit
Catabolic pathway	Endergonic reaction	Denature
Anabolic pathway	Energy coupling	Cofactors
Energy	ATP	Coenzymes
Thermodynamics	Enzyme	Competitive inhibitors
First law of thermodynamics	Catalyst	Noncompetitive inhibitors
Second law of thermodynamics	Activation energy	Allosteric regulation
Entropy	Substrate	Cooperativity
Free energy	Enzyme-substrate complex	Feedback inhibition
Enthalpy	Active site	

Review Questions

1. Explain the dichotomy of biological order and disorder. (p.145)
2. Which type of reaction occurs spontaneously?
3. What is the structure of ATP?
4. How does ATP drive chemical work? (p.150)
5. Does free energy of the system change when enzymes are used?
6. Explain how an enzyme functions. (p.154)
7. What factors affect enzyme activity?