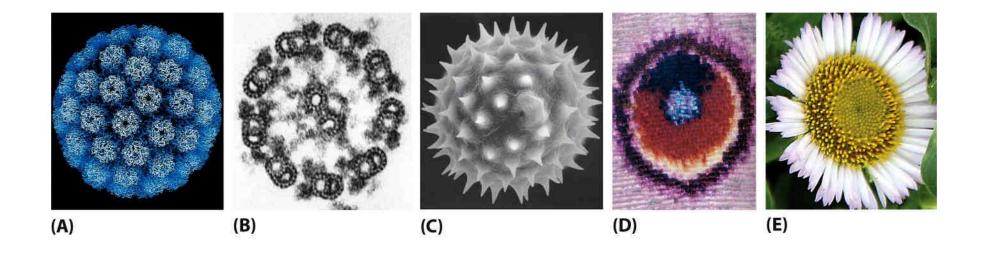
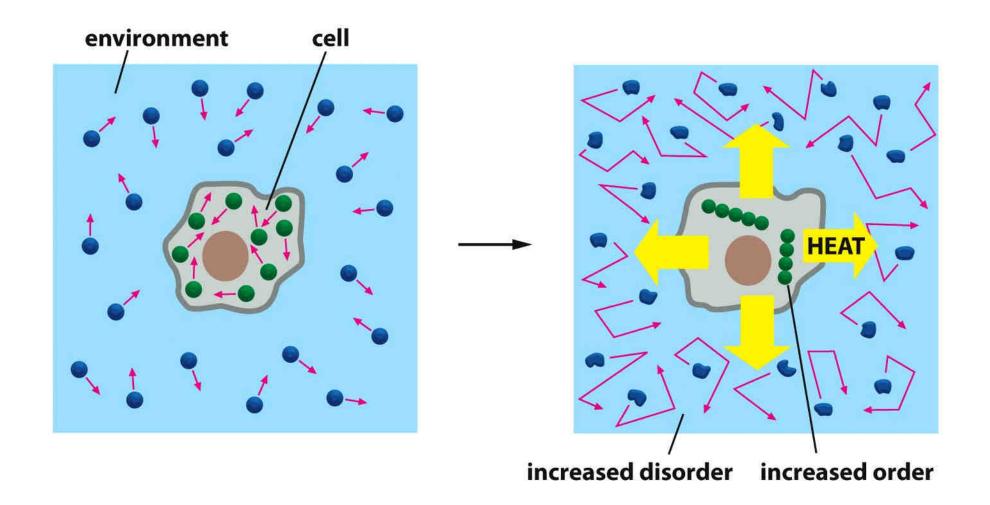
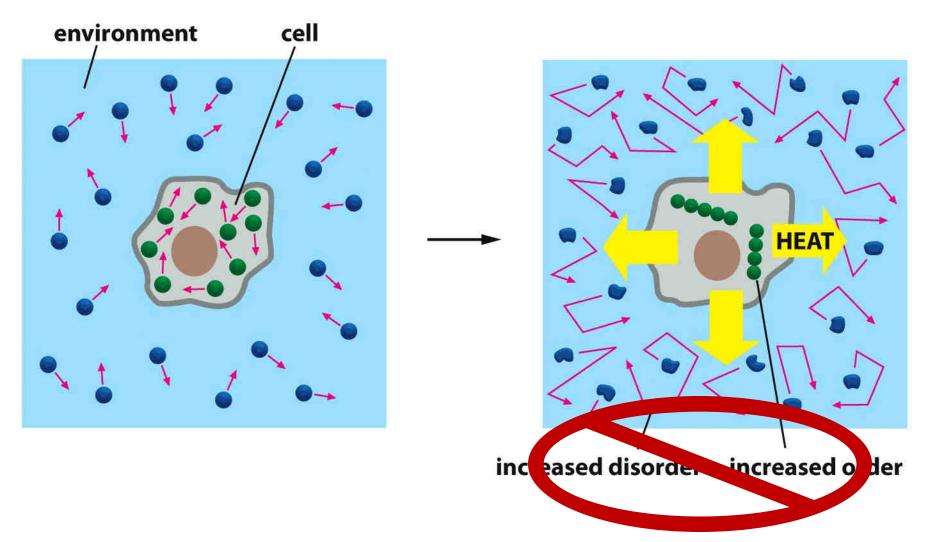
Energy, thermodynamics, and kinetics: a molecular perspective

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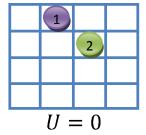


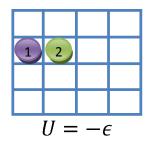


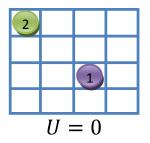
As chemical engineers, you know better than that!

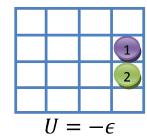
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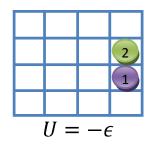
Figure 3-5 Essential Cell Biology (© Garland Science 2010)

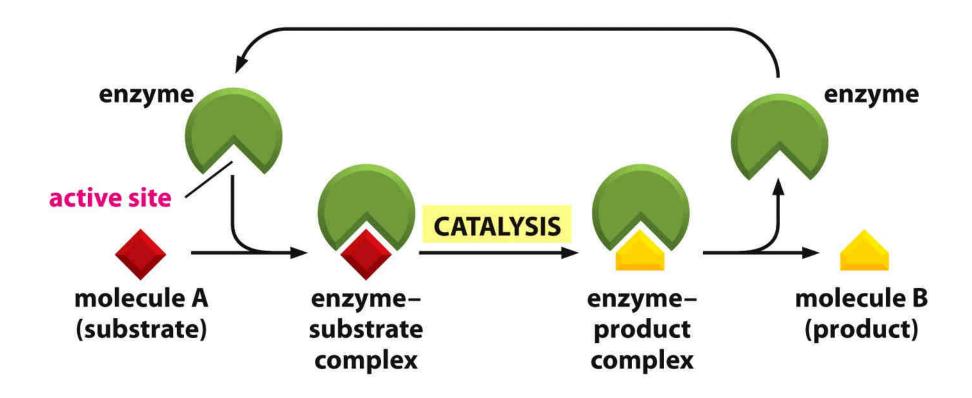


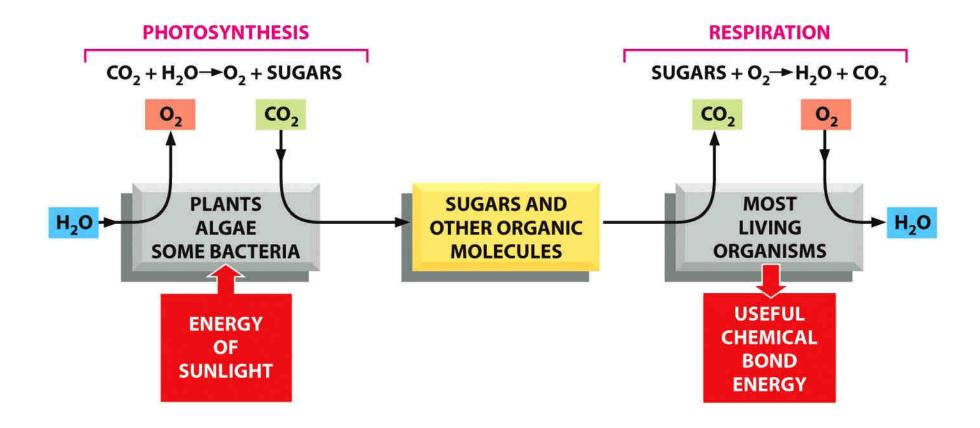


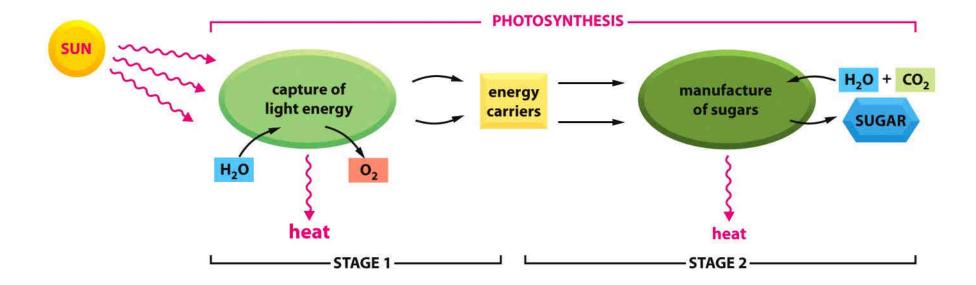


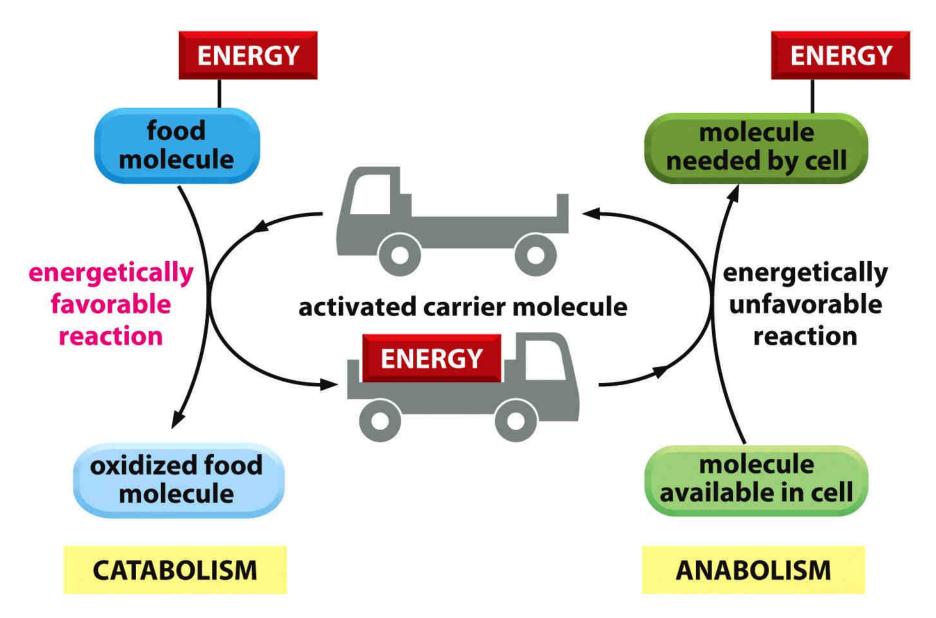












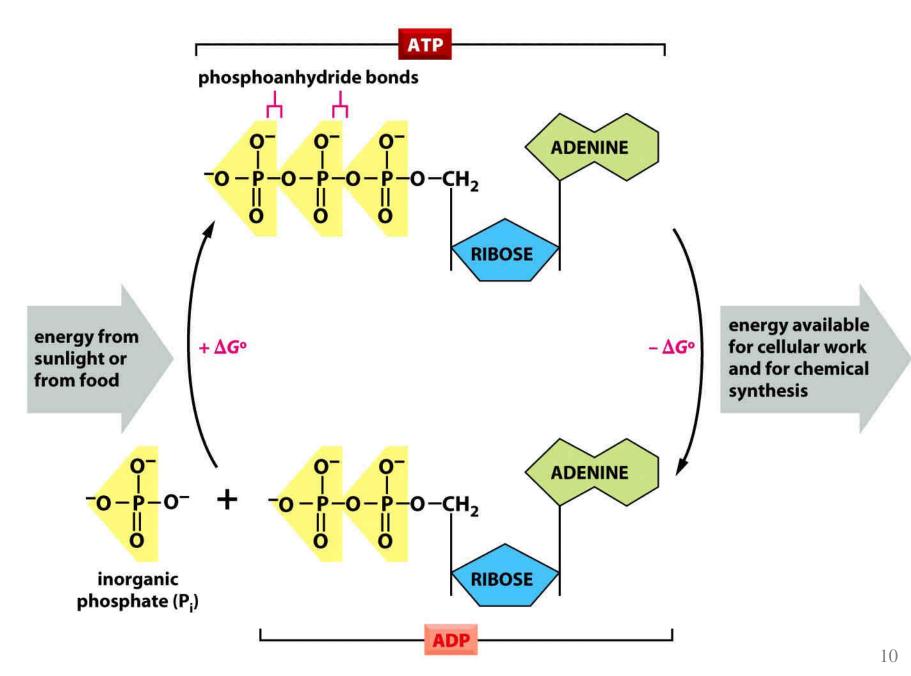
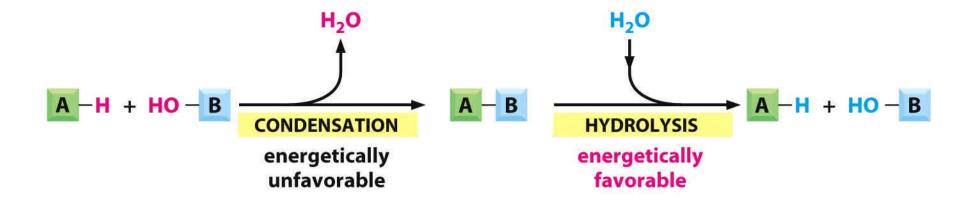


Figure 3-31 Essential Cell Biology (© Garland Science 2010)



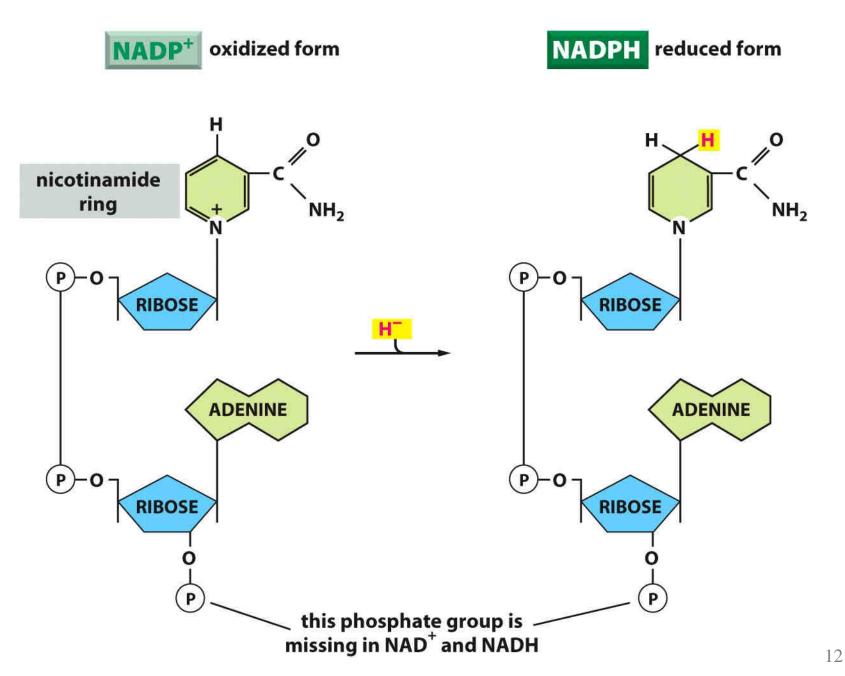


Figure 3-34b Essential Cell Biology (© Garland Science 2010)

7-dehydrocholesterol

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TABLE 3-2 SOME ACTIVATED CARRIER MOLECULES WIDELY USED IN METABOLISM ACTIVATED CARRIER GROUP CARRIED IN HIGH-ENERGY LINKAGE

ACTIVATED CARRIER	GROUP CARRIED IN HIGH-ENERGY LINKAGE
ATP	phosphate
NADH, NADPH, FADH ₂	electrons and hydrogens
Acetyl CoA	acetyl group
Carboxylated biotin	carboxyl group
S-adenosylmethionine	methyl group
Uridine diphosphate glucose	glucose

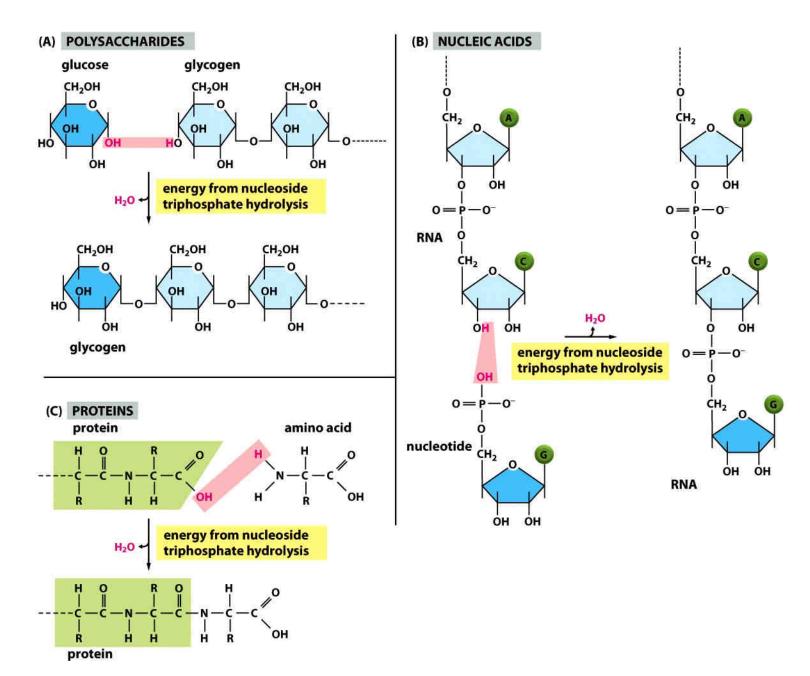


Figure 3-39 Essential Cell Biology (© Garland Science 2010)