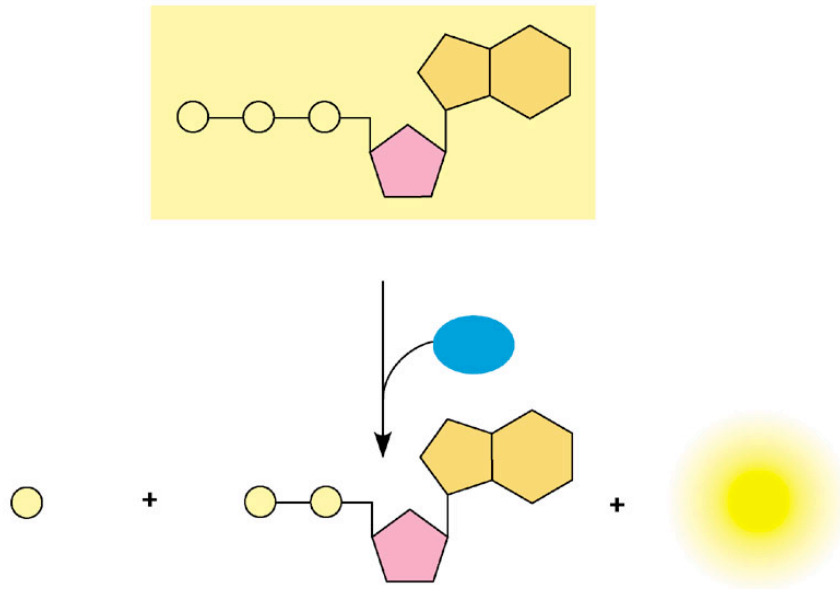




6. List the three main kinds of cellular work done by ATP and give an example of each.

7. Label the diagram below and indicate how cellular work is done by ATP.



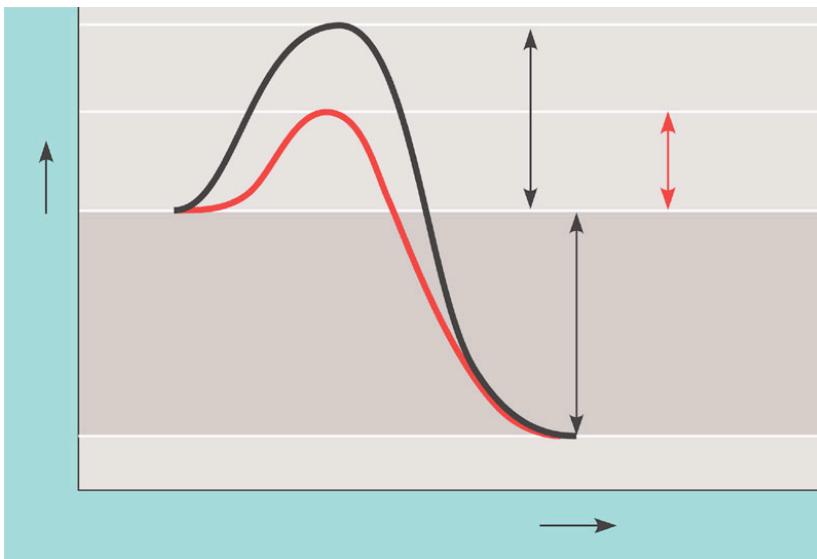
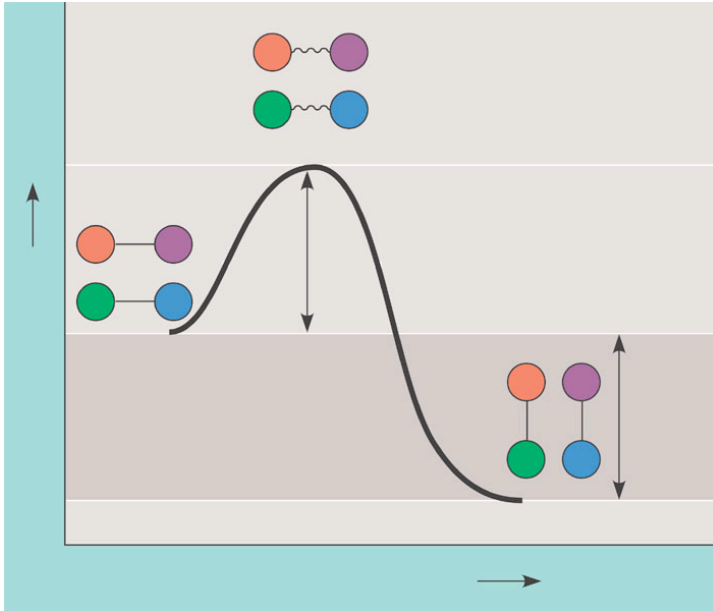
8. What is energy coupling?

9. Examine Figure 6.9. How is ATP used to do cellular work?

10. See Figure 6.11. What is the relationship between exergonic reactions, endergonic reactions and the use and regeneration of ATP?

11. What is activation energy?

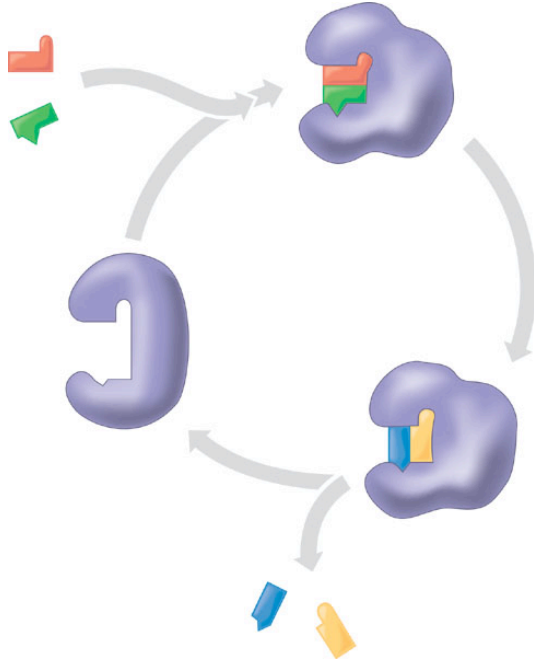
12. Label the diagrams below including the change in free energy.



13. Define the following terms:

- a. Substrate
- b. Enzyme-substrate complex
- c. Active site
- d. Induced fit

14. Label the following diagram:



15. How do temperature and pH (specifically) affect enzyme activity?

(a) Temperature

(b) pH

16. Compare cofactors and coenzymes. What is their function?

17. Compare and contrast competitive and noncompetitive inhibitors.

18. What is allosteric regulation and how does it assist in the regulation of metabolism?

19. What is cooperativity?

20. How does feedback inhibition work?