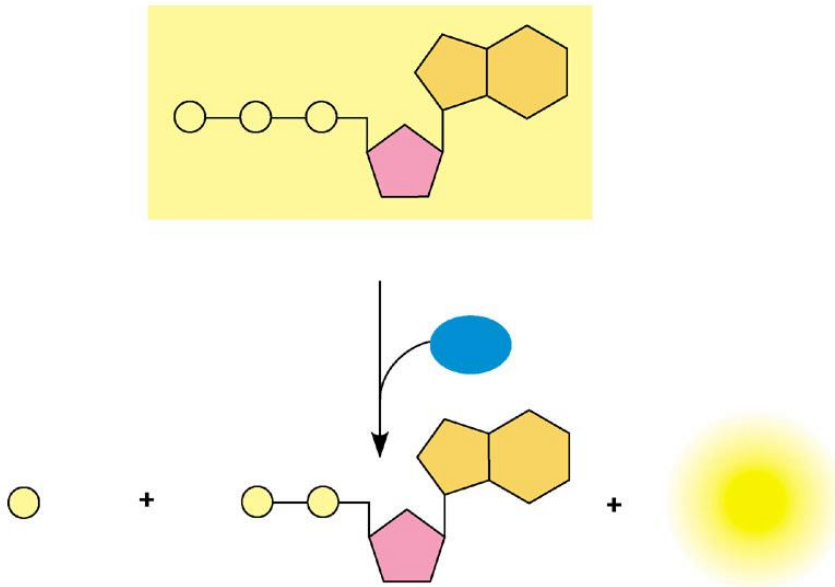




6. List and give an example of the three main kinds of cellular work done by ATP.

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



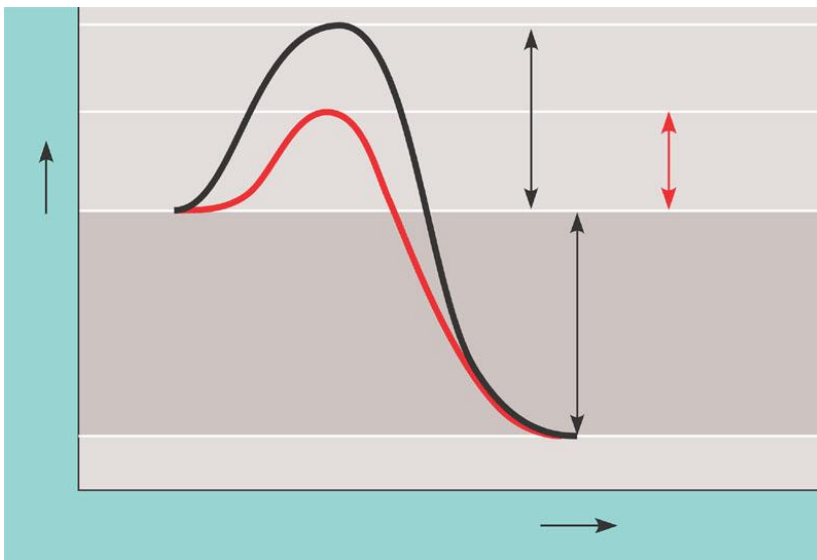
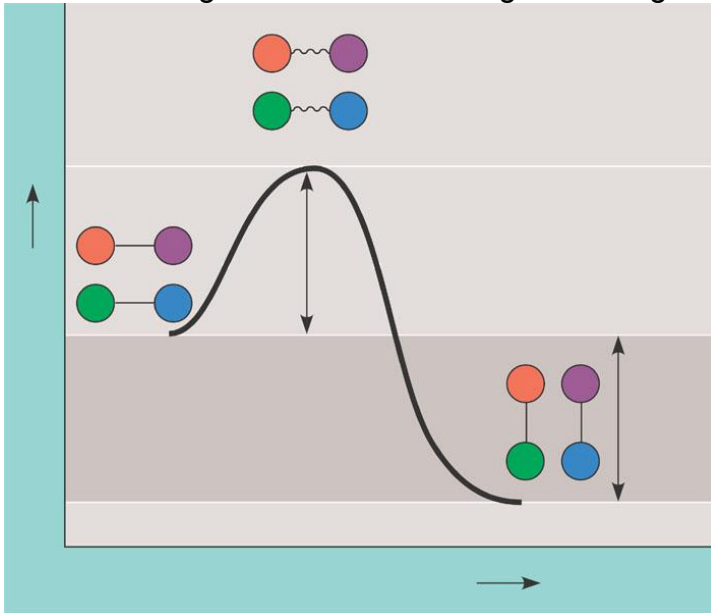
8. Define phosphorylated.

9. In your own words, explain the concept of coupled reactions and ATP doing work.

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

11. What is activation energy?

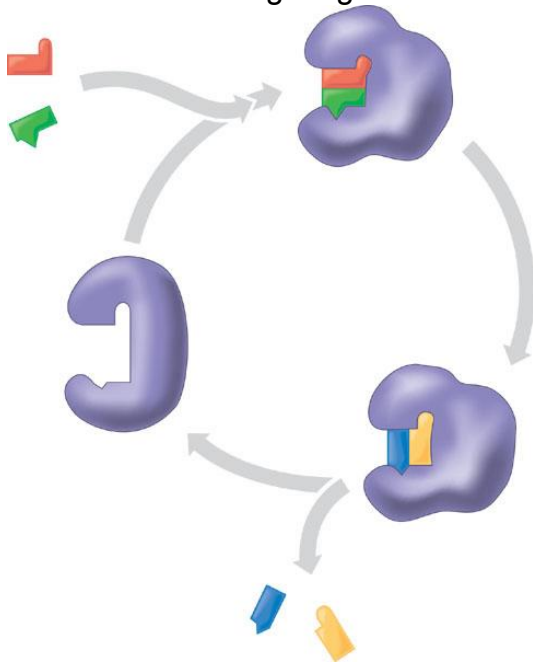
12. Label the diagrams below including the change in free energy.



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?

16. Compare and contrast competitive and noncompetitive inhibitors.

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

18. What is cooperativity?

19. How does feedback inhibition work?