

If you are looking for review materials, practice MCQs and FRQs and full length practice exams, consider Ms. Wuerth's book [Barron's AP Biology](#), she hopes you find it useful!

AP Daily Video 3.3 Environmental Impacts on Enzyme Function

1. What is denaturation?
2. List some environmental factors that can lead to enzyme denaturation.
3. How does denaturation affect enzyme function?
4. Why does an initial slight increase in temperature increase the rate of enzyme catalyzed reactions, but an larger more extreme and pronounced change in temperature decrease the rate of reaction?
5. How is the effect of raising the temperature above the optimum for a given enzyme different from the effect of lowering the temperature below the optimum for a given enzyme?
6. Why do changes in pH affect reaction rate?
7. Explain how increasing substrate concentration affects the reaction rate.
8. Explain how increasing enzyme concentration affects the reaction rate.

9. Explain how the action of competitive inhibitors is different from noncompetitive (aka allosteric) inhibitors.