

Based on the data on this graph, what is the pH optimum for the enzyme?

Why was there so little reaction at pH 2 and 13?

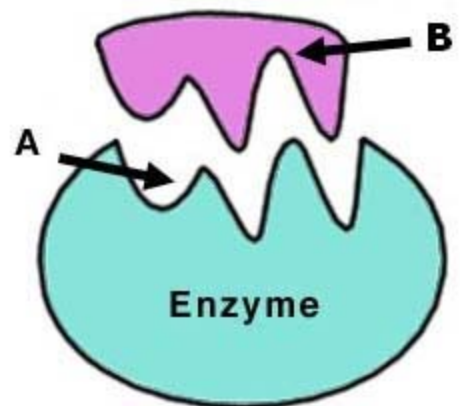
In the lab, why did we measure the foam?

What is A?

What is B?

When an enzyme is denatured, what happens to A?

Name the substrate, enzyme, and products in the reaction we tested in lab. (The enzyme is NOT called liver extract.)



If you put hydrogen peroxide in a test tube with the enzyme, Lactase, would foam be produced?

Why or why not?

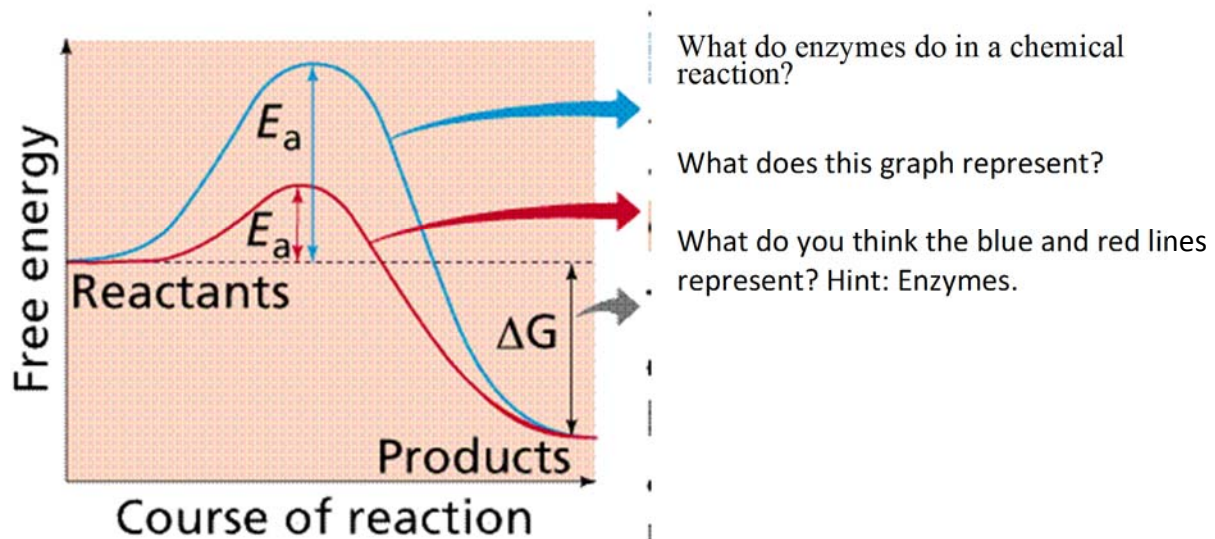
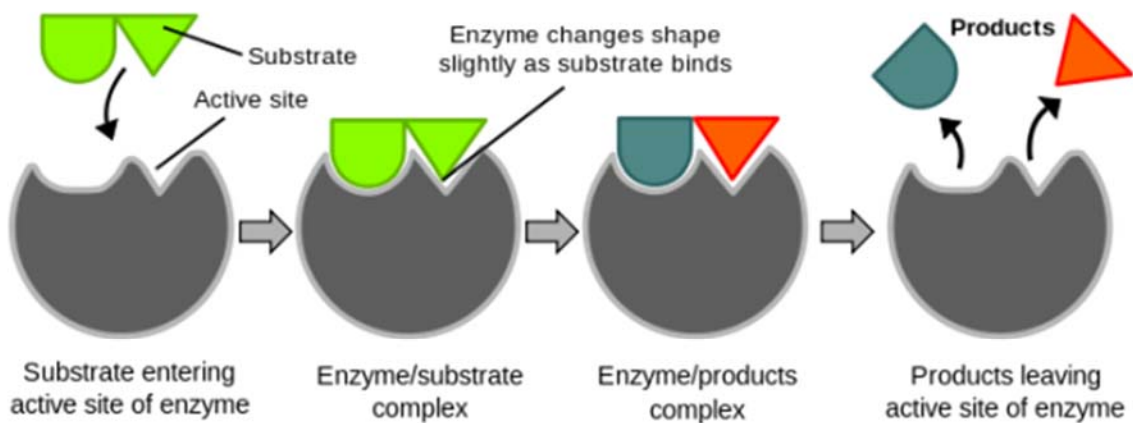
What is the function of an enzyme?

Why doesn't an enzyme work well at very low temperatures?

If you bring frozen Catalase enzyme back to body temperature, does it still work? Why or why not?

What happens to an enzyme when brought to a very high temperature?

If the enzyme is brought back to body temperature, does it still work? Why or why not?



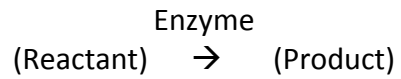
What is catalase?

What does it do in the cell?

Why do we have catalase in our livers?

Write down the chemical reaction for hydrogen peroxide with the enzyme catalase.

What is the reactant? The enzyme? The Product?



What is the effect on an enzyme if it is exposed to a very high or very low pH compared to its optimal pH?

Is the optimal pH the same for all enzymes?