**Bell Ringer**: Enzyme and Their Activity

*AP Biology*

|  | In the diagram at right, label the following:   * Enzyme * Substrate(s) * Enzyme-substrate complex * Water * Hydrolysis reaction * Dehydration synthesis reaction   What level of protein structure do most enzymes have? (circle one)  Primary Secondary Tertiary Quaternary |
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|  | In the diagram at left, label the following:   * Reaction without catalyst * Reaction with catalyst * Products (where they would be if shown) * Reactants (where they would be if shown) * Activation energy * Transition state |
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|  | The graph at left illustrates 3 enzyme-catalyzed reactions: one without an inhibitor, one with a competitive inhibitor, and one with a non-competitive (allosteric) inhibitor. **Explain** why the slope of each line shown on the graph appears as it does. |
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