

Toothpick-ase

Follow up-Academic:

1. What was the chemical reaction being modeled in this activity? What represented the substrate molecule, the product molecule and the enzyme?
2. What was the active site on the enzyme? Was the active site changed by the reaction? Explain.
3. Is the enzyme in this model activity re-useable? Explain. What would have happened if more toothpicks had been added during the reaction?
4. Enzymes are also called catalysts. What is a catalyst? How does an enzyme affect the amount of energy needed for a reaction to occur? (What does the enzyme do to the substrate to help it break down?).
5. When we say that enzymes are specific, what is meant by that? How many different TYPES of reactions can an enzyme do? Why?
6. What are the 3 ways to change an enzyme's reactivity speed? Which of the three did we change in this lab?
7. What does denatured mean and what can cause that?

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