Name ……………………………………………………………………… Class: ………………………………… Date / /

Objectives: After the lesson the students should be able to:

1. **Students** know that enzymes lower the activation energy for a reaction and that their function depends on their structure.
2. **Students** distinguish between competitive and non-competitive enzyme inhibition.

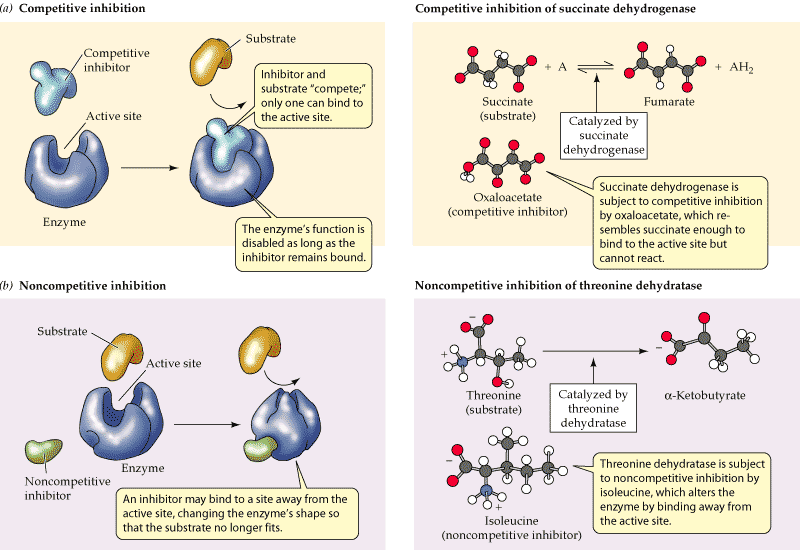
# Activity 1:

Put T in front of the true statement and F in front of the false one:

1. Enzymes have no effect on activation energy of the reaction. **F**
2. The structure of an enzyme determines what substances it acts upon. **T**
3. Some enzymes have no effect. **F**

# Activity 2:

What are the difference between competitive and non-competitive enzymes



# Activity 3:

***1-Complete the following table***

|  |  |  |
| --- | --- | --- |
| ***Enzyme*** | 1. *Reacts with* | 1. *Converting it to* |
| * + - 1. ***Salivary Amylase*** | ***Starch (Saliva)*** | ***Sugar*** |
| * + - 1. ***Pancreatic Amylase*** | ***Glycogen*** | ***Sugar*** |
| * + - 1. ***Lipase*** | ***Fats*** | ***Fatty acids*** |
| * + - 1. ***Any other 4 enzymes from the web.*** |  |  |

**Homework due date next period**

1. Draw a diagram to show the lock and key (Mechanism of enzymatic action).
2. Using the same drawing illustrate that enzymatic actions are reversible.

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