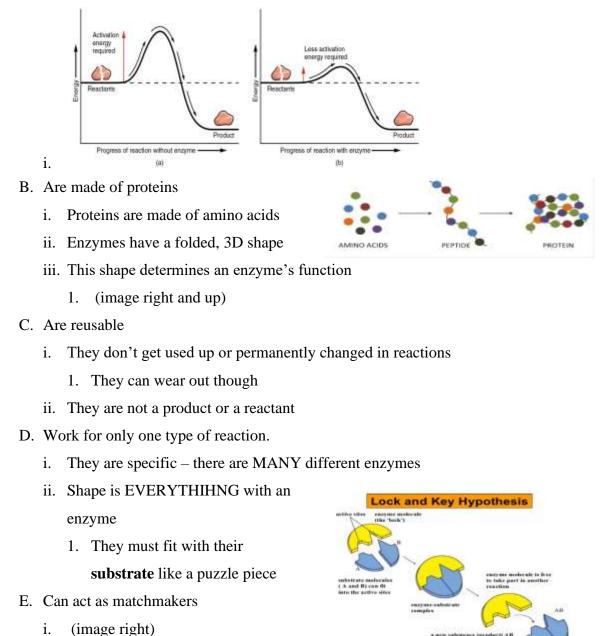
## EQ: Explain how the structure of an enzyme is key to its function?



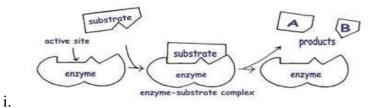
- A. Require energy as they go (endothermic) or
- B. Release energy as they go (exothermic)

## **II. Enzymes**

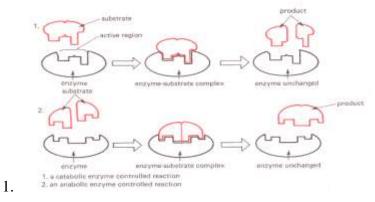
A. Speed up chemical reactions (catalyze) by reducing the amount of energy needed (the activation energy) for a reaction to start.



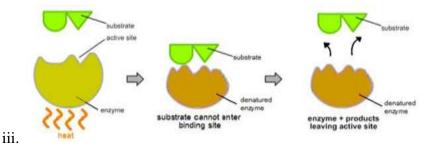
F. Can act as gossipers



ii. Gossiper v. Matchmaker



- III. Enzymes don't always work
  - A. Can be changed by extreme changes in pH or temperature.
    - i. This is called **denatured**
    - ii. And enzyme that have been completely denatured will not work anymore.



- B. Can be **inhibited** by blocking the active site.
  - i. This can slow down a reaction that doesn't need to happen quickly.
  - ii. It can also prevent an enzyme from ever working at all