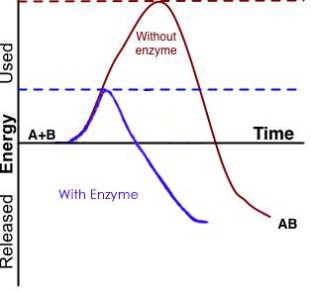
**Enzymes page #\_\_\_\_\_\_\_\_\_\_\_**

**What are enzymes:**

* Made of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Biological \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
  + A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a substance that \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_ a chemical \_\_\_\_\_\_\_\_\_\_\_\_, without itself being chemically \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_ amount needed.

**What do enzymes do?**

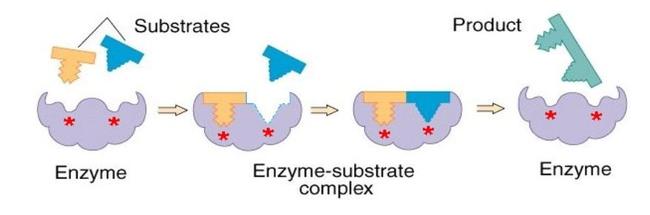
* Enzymes \_\_\_\_\_\_\_\_\_\_\_\_ the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ the reaction.
  + Activation energy: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

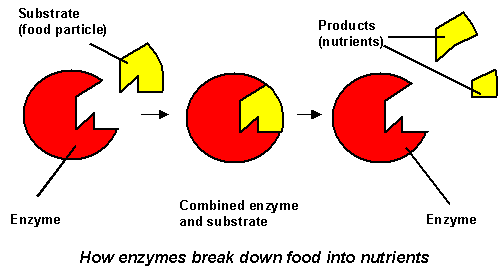
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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Lock and Key model**

* Active site: Where the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Substrate: substance \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ with the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.



**Factors that affect enzymes:**

* Every enzyme has \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ under which it will work

1. Temperature: Each \_\_\_\_\_\_\_\_\_\_\_\_ has its \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ where it \_\_\_\_\_\_\_\_\_\_ .
   * Temperature much \_\_\_\_\_\_\_\_\_\_\_\_ than ideal can \_\_\_\_\_\_\_\_\_\_\_\_ the enzyme.
   * DENATURE: breaks \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and changes the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ so its \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_.
2. pH
   * each \_\_\_\_\_\_\_\_\_\_\_\_\_\_ has a \_\_\_\_\_\_\_\_\_\_\_\_\_ pH where it \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_.
   * Too \_\_\_\_\_\_\_\_\_\_\_ or too \_\_\_\_\_\_\_\_\_ and it does \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ as well or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ entirely.
3. Concentration
   * The \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is available, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , until all the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ has an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

