

Enzyme Notes

What Are Enzymes?

Most enzymes are Proteins

Act as Catalyst to accelerate a reaction Not permanently changed in the process

Are (mostly) specific for what they will catalyze

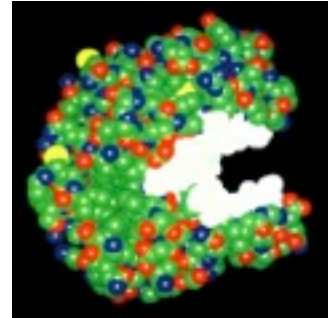
Are Reusable

End in -ase

-Sucrase

-Lactase

-Maltase



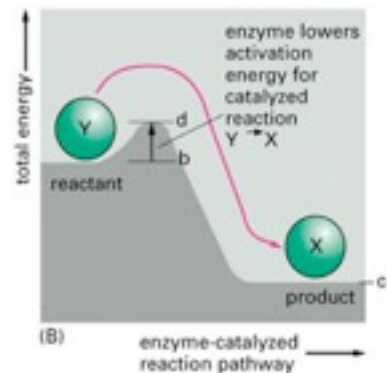
How do Enzymes Work?

Enzymes work by weakening bonds which lowers activation energy

What Affects Enzyme Activity?

Three factors:

1. Environmental Conditions: Temperature, pH, Ionic conditions
2. Cofactors and Coenzymes
3. Enzyme Inhibitors



What happens?

Denaturation is a process in which [proteins](#) or [nucleic acids](#) lose the [native structure](#), by application of some external stress. (break down)

Types of Reactions:

Endothermic: requires energy (form bonds)

process that absorbs [energy](#) from the surroundings in the form of [heat](#).

Exothermic: releases energy (break bonds)

process that releases [energy](#) from the system.