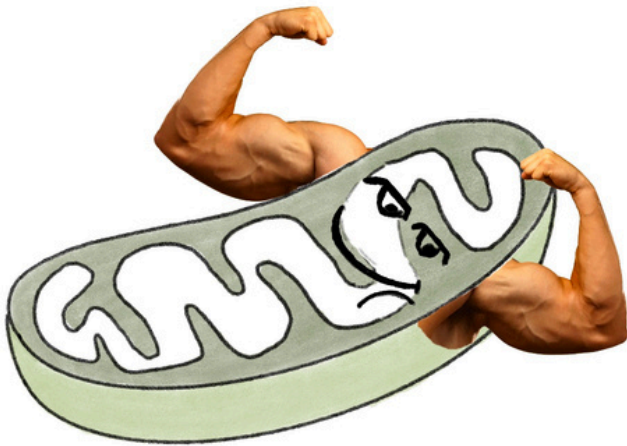


AP BIOLOGY

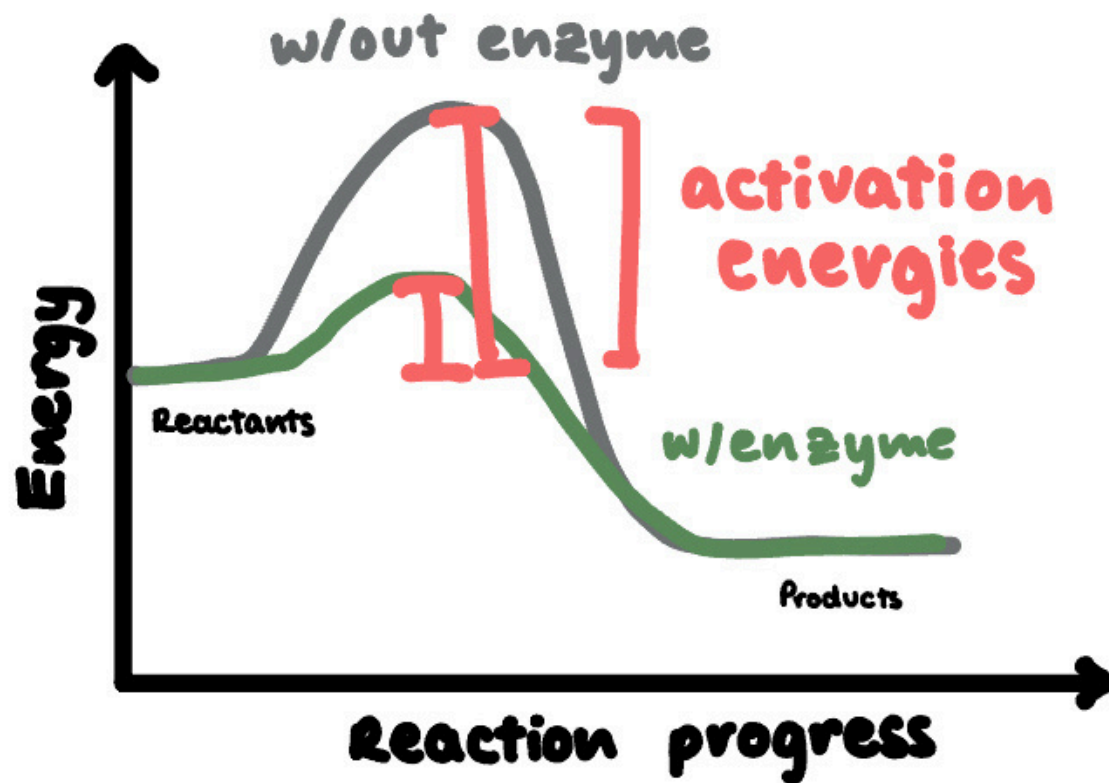
ENZYMES

REVIEW



Enzyme: **BIOLOGICAL CATALYST**, Speeds up reactions without being consumed

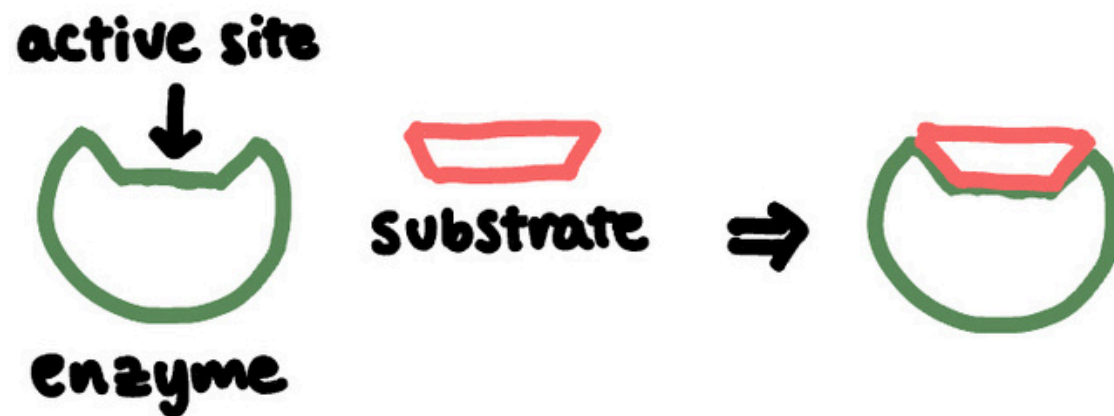
→ lowers **activation energy** (energy needed for a reaction to occur)



STRUCTURE

→ **substrate**: molecule the enzyme acts on

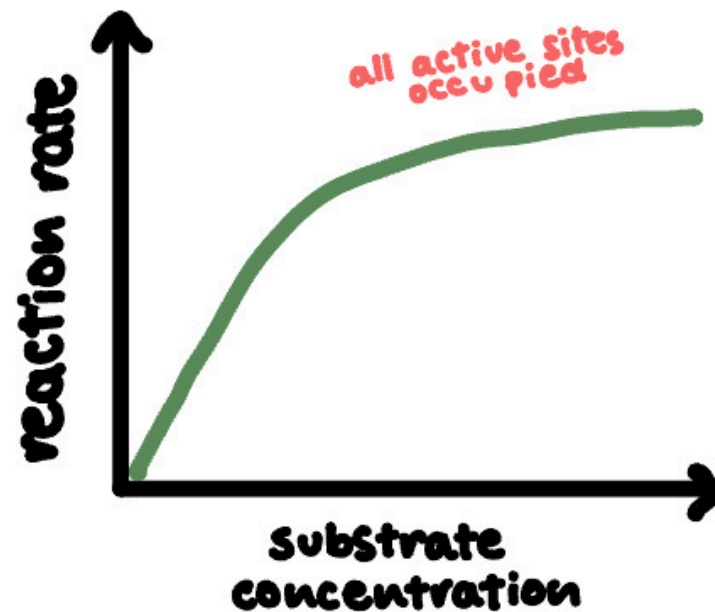
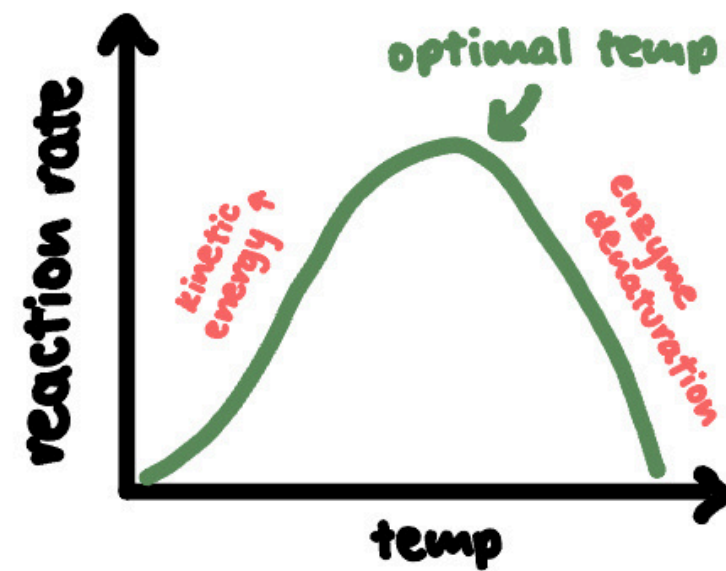
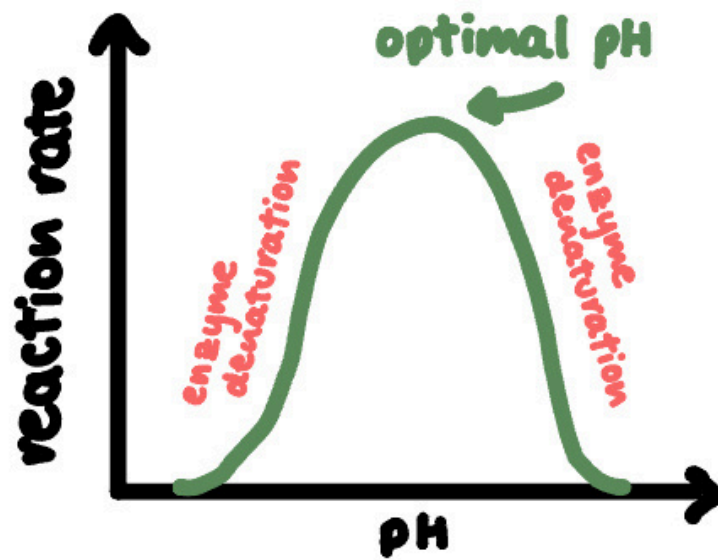
→ **active site**: region on enzyme where substrate binds



Induced fit model: active site isn't a rigid perfect match, it changes shape slightly as substrate binds

ENZYME ACTIVITY

→ reaction rate = enzyme activity

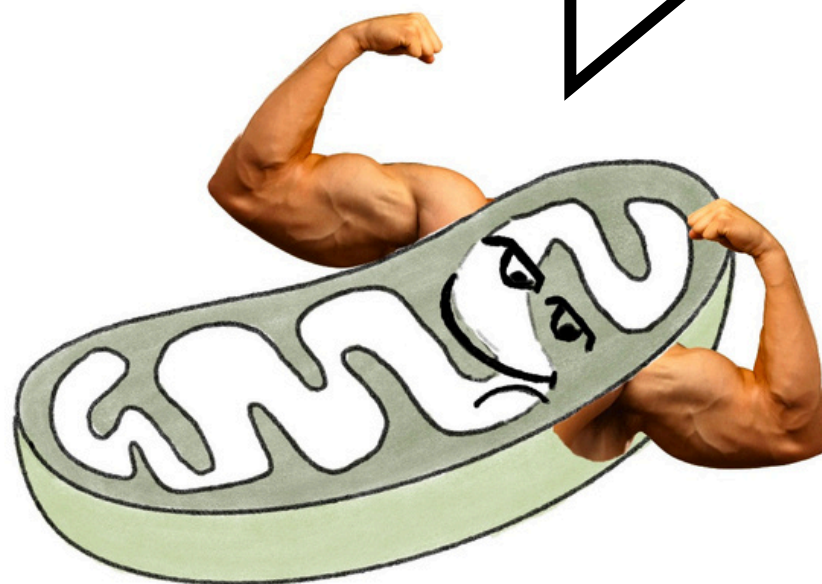


INHIBITION

→ **competitive inhibitor**: binds to active site (blocking substrate)

→ **noncompetitive inhibitor**: binds to **allosteric site** (another area of enzyme), changes active site shape

**follow for
more!**



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