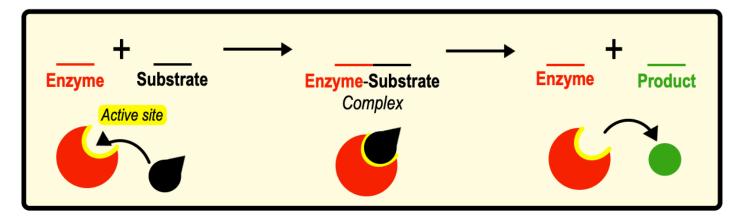
CONCEPT: ENZYME BINDING FACTORS

Enzyme-Substrate Complex

●A substrate binds an enzyme at the active site, forming	the <i>Enzyme-Substrate</i> ()
□ Active Site : specific region of an enzyme that _	substrates.	

□ After catalysis, _____ are released from the *active site* but the enzyme is *unchanged*.

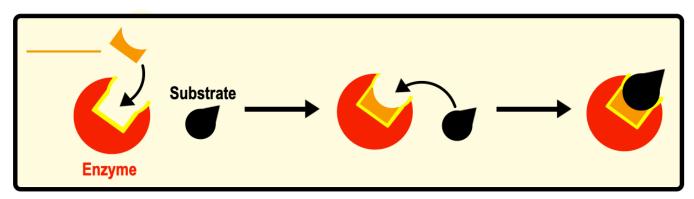
EXAMPLE: Substrate binding forms the ES-complex.



Cofactors

- •Some enzymes require _____: non-protein substances required for catalysis to occur (ex. metal ions).
 - □ Cofactors are NOT consumed in the reaction.
 - □ **Coenzyme**: an *organic molecule* cofactor derived from *vitamins*.

EXAMPLE: Cofactors can assist in substrate binding.



PRACTICE: The organic non-protein components that aid in enzyme catalysis are called:

- a) Reactants.
- b) Cofactors.
- c) Coenzymes.
- d) Substrates.
- e) Products.