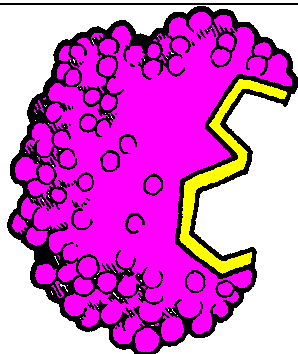# ENZYMES

ENZYME PROPERTIES & STRUCTURE

Yellow = active site
Pink = enzyme

- Globular proteins
- Catalysts - speed up chemical rxns by lowering activation energy (energy needed to start rxn)
- Not used up in chemical rxn
- Active site = groove or pocket where substrate binds
- Specific
- Shape related to function – change shape (denature) enzyme no longer functions

ENZYME ACTION – INDUCED FIT MODEL

• Enzyme = pink • Active site = yellow • Substrate = red	• Substrate binds to enzyme at active site • Enzyme (active site) changes shape • Bonds form between substrate (or break)	• Product (green) released • Enzyme unchanged & ready to be used again