

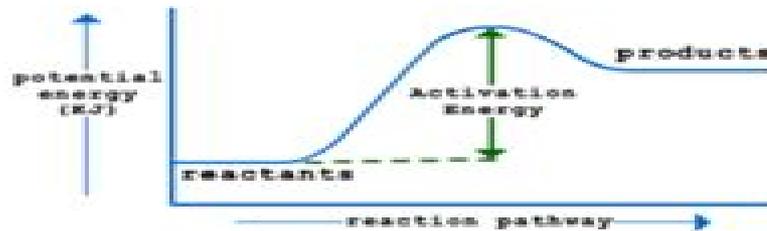
# Biomolecule & Enzyme Study Guide

Carbon Compound	Indicator used	Positive Test
Sugar	Benedict's solution	Orange/Brick Red
Starch	Iodine	Black
Protein	Biuret's solution	Purple
Lipid	Brown Paper Bag Sudan IV	Translucent Spot Red

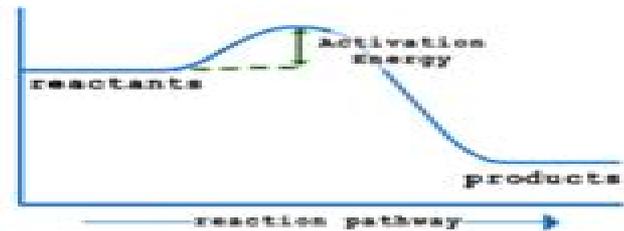
## Chemical Reactions



## Types of Reactions:



**Endothermic**

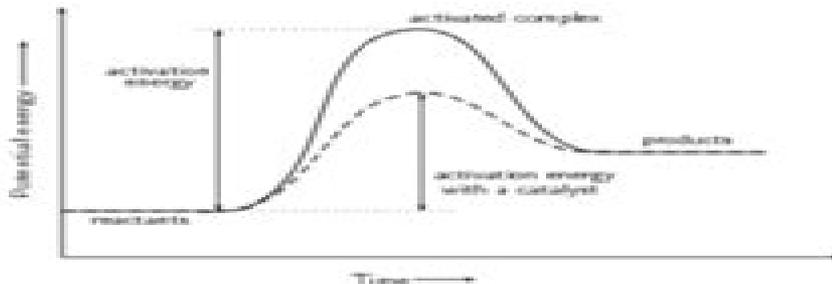


**Exothermic**

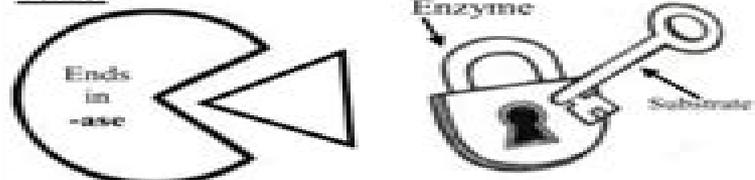
### "LOCK AND KEY" MODEL OF ENZYME ACTION

- There are four steps in the process of an enzyme working.
- (1) An enzyme and a **SUBSTRATE (key)** are in the same area. The substrate is the biological molecule that the enzyme will work on.
  - (2) The enzyme grabs onto the substrate with a special area called the **ACTIVE SITE**. The active site is a specially shaped area of the enzyme that fits around the substrate. The active site is the keyhole of the lock.
  - (3) A process called **CATALYSIS** happens. Catalysis is when the substrate is changed. It could be broken down or combined with another molecule to make something new.
  - (4) The enzyme lets go. Big idea - When the enzyme lets go, it returns to normal, ready to do another reaction. The substrate is no longer the same. The substrate is now called the **PRODUCT**.

### Enzyme Activity Lowers Activation Energy



Enzymes are **proteins** which are made of **amino acids**.



3 things that affect enzyme activity:

1. Temperature (denatures)
2. pH (denatures)
3. Concentrate (amount) of substrate

# Enzyme Study Guide Answers

**Daniel F McAuley**



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## **Table of Contents Enzyme Study Guide Answers**

1. Understanding the eBook Enzyme Study Guide Answers
  - The Rise of Digital Reading Enzyme Study Guide Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Enzyme Study Guide Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Enzyme Study Guide Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Enzyme Study Guide Answers
  - Personalized Recommendations
  - Enzyme Study Guide Answers User Reviews and Ratings
  - Enzyme Study Guide Answers and Bestseller Lists

5. Accessing Enzyme Study Guide Answers Free and Paid eBooks
  - Enzyme Study Guide Answers Public Domain eBooks
  - Enzyme Study Guide Answers eBook Subscription Services
  - Enzyme Study Guide Answers Budget-Friendly Options
6. Navigating Enzyme Study Guide Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Enzyme Study Guide Answers Compatibility with Devices
  - Enzyme Study Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Enzyme Study Guide Answers
  - Highlighting and Note-Taking Enzyme Study Guide Answers
  - Interactive Elements Enzyme Study Guide Answers
8. Staying Engaged with Enzyme Study Guide Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Enzyme Study Guide Answers
9. Balancing eBooks and Physical Books Enzyme Study Guide Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Enzyme Study Guide Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Enzyme Study Guide Answers
  - Setting Reading Goals Enzyme Study Guide Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Enzyme Study Guide Answers
  - Fact-Checking eBook Content of Enzyme Study Guide Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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