

## Chapter 3- Biological Macromolecules

An organic molecule contains carbon, and has C-H bond

An organic molecule contains both carbon and hydrogen. Methane is a simple organic molecule

- Why are all organic molecules (and thus all living things) carbon based?  
Carbon= small & versatile

Organic molecules have functional groups

- Functional groups: small groups of non-hydrogen atoms in organic molecules
- They make each organic molecule unique: protein vs. carbohydrate vs....

A monomer is a single unit of a carbohydrate, protein, or nucleic acid. Monomers join to form polymers

During dehydration

Note: carbohydrates contain only C, H, & O in a 1:2:1 ratio

Carbohydrates:

Carbohydrates include simple sugars and polysaccharides

Monosaccharides are the monomers of carbohydrates

Dehydration synthesis binds two monosaccharides, forming a disaccharide. Hydrolysis separates disaccharides into monosaccharides

Polysaccharides are long chains of carbohydrates

Cellulose: structure

Starch: energy

Glycogen: energy

Insulin= hormone from the pancreas

Glucagon= hormone from the pancreas

- Carbohydrates (sugars) and blood sugar levels
- Monosaccharides and disaccharides lead to quick, short increases in blood sugar
- Polysaccharides lead to slow, longer lasting increases or maintenance

# Modern Biology Chapter Three Study Guide

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## **Modern Biology Chapter Three Study Guide:**

The book delves into Modern Biology Chapter Three Study Guide. Modern Biology Chapter Three Study Guide is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Modern Biology Chapter Three Study Guide, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Modern Biology Chapter Three Study Guide
    - Chapter 2: Essential Elements of Modern Biology Chapter Three Study Guide
    - Chapter 3: Modern Biology Chapter Three Study Guide in Everyday Life
    - Chapter 4: Modern Biology Chapter Three Study Guide in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Modern Biology Chapter Three Study Guide. The first chapter will explore what Modern Biology Chapter Three Study Guide is, why Modern Biology Chapter Three Study Guide is vital, and how to effectively learn about Modern Biology Chapter Three Study Guide.
  3. In chapter 2, this book will delve into the foundational concepts of Modern Biology Chapter Three Study Guide. The second chapter will elucidate the essential principles that must be understood to grasp Modern Biology Chapter Three Study Guide in its entirety.
  4. In chapter 3, this book will examine the practical applications of Modern Biology Chapter Three Study Guide in daily life. The third chapter will showcase real-world examples of how Modern Biology Chapter Three Study Guide can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Modern Biology Chapter Three Study Guide in specific contexts. The fourth chapter will explore how Modern Biology Chapter Three Study Guide is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Modern Biology Chapter Three Study Guide. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Modern Biology Chapter Three Study Guide.

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