

# DNA: THE CODE OF LIFE

Prok	Euk
Single layer (flagella attached)	Double layer
Nuclei	Nucleus
Nucleolus, ribosomes?	Nucleolus
Cell envelope	

↳ From the inside of cell envelope.  
 The presence of **nucleus** gives  
 the type of organism (prokaryote or eukaryote) →



**DNA** (deoxyribonucleic acid) is a long molecule of DNA that carries the genetic information for an organism. It is made up of nucleotides, which are the building blocks of DNA. Each nucleotide consists of a phosphate group, a sugar, and a nitrogenous base. The bases are the letters of the genetic code: A, T, C, and G.

## DNA REPLICATION

**1. Overview**

- 1. DNA replication is the process by which a cell makes a copy of its DNA.
- 2. The new DNA strands are called daughter DNA molecules.
- 3. Initiated by enzymes.

**2. Steps**

1. The DNA double helix is unwound by the enzyme **helicase**.
2. The DNA strands are separated by the enzyme **topoisomerase**.
3. The DNA strands are coated by the enzyme **single-strand binding protein**.
4. The DNA strands are synthesized by the enzyme **DNA polymerase**.
5. The DNA strands are joined by the enzyme **DNA ligase**.

**3. Result**

1. Two daughter DNA molecules are produced.
2. Each daughter DNA molecule is a double-stranded DNA molecule.
3. Each daughter DNA molecule is identical to the parent DNA molecule.

**4. Importance**

- 1. DNA replication is essential for cell growth and development.
- 2. DNA replication is essential for the repair of damaged DNA.
- 3. DNA replication is essential for the inheritance of genetic information.

## PROTEIN SYNTHESIS

**1. Overview**

- 1. Protein synthesis is the process by which a cell makes a copy of its DNA.
- 2. The new protein molecules are called daughter protein molecules.
- 3. Initiated by enzymes.

**2. Steps**

1. The DNA double helix is unwound by the enzyme **helicase**.
2. The DNA strands are separated by the enzyme **topoisomerase**.
3. The DNA strands are coated by the enzyme **single-strand binding protein**.
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- 2. Protein synthesis is essential for the repair of damaged DNA.
- 3. Protein synthesis is essential for the inheritance of genetic information.

# Life Science Grade 11 Caps Study Notes Pdfsdocuments

**S Ashworth**



**Life Science Grade 11 Caps Study Notes Pdfsdocuments:**

The book delves into Life Science Grade 11 Caps Study Notes Pdfsdocuments. Life Science Grade 11 Caps Study Notes Pdfsdocuments is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Life Science Grade 11 Caps Study Notes Pdfsdocuments, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Life Science Grade 11 Caps Study Notes Pdfsdocuments
    - Chapter 2: Essential Elements of Life Science Grade 11 Caps Study Notes Pdfsdocuments
    - Chapter 3: Life Science Grade 11 Caps Study Notes Pdfsdocuments in Everyday Life
    - Chapter 4: Life Science Grade 11 Caps Study Notes Pdfsdocuments in Specific Contexts
    - Chapter 5: Conclusion
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  3. In chapter 2, the author will delve into the foundational concepts of Life Science Grade 11 Caps Study Notes Pdfsdocuments. The second chapter will elucidate the essential principles that need to be understood to grasp Life Science Grade 11 Caps Study Notes Pdfsdocuments in its entirety.
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## **Table of Contents Life Science Grade 11 Caps Study Notes Pdfsdocuments**

1. Understanding the eBook Life Science Grade 11 Caps Study Notes Pdfsdocuments
  - The Rise of Digital Reading Life Science Grade 11 Caps Study Notes Pdfsdocuments
  - Advantages of eBooks Over Traditional Books
2. Identifying Life Science Grade 11 Caps Study Notes Pdfsdocuments
  - 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 a Life Science Grade 11 Caps Study Notes Pdfsdocuments
  - User-Friendly Interface
4. Exploring eBook Recommendations from Life Science Grade 11 Caps Study Notes Pdfsdocuments
  - Personalized Recommendations
  - Life Science Grade 11 Caps Study Notes Pdfsdocuments User Reviews and Ratings
  - Life Science Grade 11 Caps Study Notes Pdfsdocuments and Bestseller Lists
5. Accessing Life Science Grade 11 Caps Study Notes Pdfsdocuments Free and Paid eBooks
  - Life Science Grade 11 Caps Study Notes Pdfsdocuments Public Domain eBooks
  - Life Science Grade 11 Caps Study Notes Pdfsdocuments eBook Subscription Services
  - Life Science Grade 11 Caps Study Notes Pdfsdocuments Budget-Friendly Options
6. Navigating Life Science Grade 11 Caps Study Notes Pdfsdocuments eBook Formats
  - ePub, PDF, MOBI, and More
  - Life Science Grade 11 Caps Study Notes Pdfsdocuments Compatibility with Devices
  - Life Science Grade 11 Caps Study Notes Pdfsdocuments Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Life Science Grade 11 Caps Study Notes Pdfsdocuments
  - Highlighting and Note-Taking Life Science Grade 11 Caps Study Notes Pdfsdocuments
  - Interactive Elements Life Science Grade 11 Caps Study Notes Pdfsdocuments

8. Staying Engaged with Life Science Grade 11 Caps Study Notes Pdfsdocuments
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Life Science Grade 11 Caps Study Notes Pdfsdocuments
9. Balancing eBooks and Physical Books Life Science Grade 11 Caps Study Notes Pdfsdocuments
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Life Science Grade 11 Caps Study Notes Pdfsdocuments
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Life Science Grade 11 Caps Study Notes Pdfsdocuments
  - Setting Reading Goals Life Science Grade 11 Caps Study Notes Pdfsdocuments
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Life Science Grade 11 Caps Study Notes Pdfsdocuments
  - Fact-Checking eBook Content of Life Science Grade 11 Caps Study Notes Pdfsdocuments
  - 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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