

# Protein Synthesis Lab

## Purpose:

Recognize that the sequence of bases in DNA determines the shape, structure, and function of a protein.

## Materials:

- Scissors
- White paper
- Pencil
- Construction paper
- Lab handout
- Tape

## Background:

DNA is the molecule that stores the genetic information in your cells. That information is coded in the four bases of DNA: C, G, A, and T. The DNA directs the functions of the cell on a daily basis and will also be used to pass on the genetic information to the next generation. Because of its critical role in all the functions of the cell, DNA is kept protected in the nucleus of eukaryotic cells.

DNA is organized into sections called genes. Gene code for proteins, and it is proteins that do all the work in the cell. They function as structural proteins that serve as the building blocks of cells and bodies. They also function as enzymes, who are the little molecular chemists in bodies.

Proteins are made in the cytoplasm by protein factories called ribosomes. So, the information from DNA must be transmitted from the nucleus to the cytoplasm. Each gene on the DNA is read and codes directly for mRNA molecules. The mRNA is made by matching its complementary bases- C, G, A, and U to the DNA bases. The mRNA molecule then leaves the nucleus and carries the code for making the p[rotein from the DNA gene to the ribosome in the cytoplasm.

The ribosome reads the sequence of bases on the mRNA in sets of three called codons. Another type of RNA, tRNA, brings the protein building blocks, amino acids, to the ribosome as they are needed. The ribosome bonds the amino acids together to build the protein coded for by the gene back in the nucleus.

## Procedure:

1. Your group should obtain one sheet of paper with your four sections of DNA. Cut the strips out along straight lines and tape them together to make a long one-sided DNA molecule. Each section is numbered. Lay them out on the desk from left (#1) to right (#4). See the diagram below.



2. We are going to use this section of our DNA as a gene to make a protein the cell needs. Remember it used to be part of a double-stranded DNA molecule. But it has already been unzipped and now will be used as the template to build your mRNA, one base at a time. So first design an RNA polymerase enzyme to do this mRNA synthesis job.
3. **TRANSCRIPTION:** You have been supplied with mRNA nucleotide bases. Build a mRNA molecule from this gene by matching the mRNA bases to your DNA template, one base at a time. Tape this mRNA molecule along its length to simulate the strong bonds that the RNA polymerase makes between the mRNA bases. This way, it will be a stable molecule and can

# Protein Synthesis Lab Concept Answers

**S Ben Porath**



## **Protein Synthesis Lab Concept Answers:**

## **Protein Synthesis Lab Concept Answers** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Protein Synthesis Lab Concept Answers**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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### **Table of Contents Protein Synthesis Lab Concept Answers**

1. Understanding the eBook Protein Synthesis Lab Concept Answers
  - The Rise of Digital Reading Protein Synthesis Lab Concept Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Protein Synthesis Lab Concept 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 eBook Platform
  - User-Friendly Interface
4. Exploring eBook Recommendations from Protein Synthesis Lab Concept Answers
  - Personalized Recommendations
  - Protein Synthesis Lab Concept Answers User Reviews and Ratings
  - Protein Synthesis Lab Concept Answers and Bestseller Lists

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