



Name: Huy Lam

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## Student Exploration: RNA and Protein Synthesis

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**Vocabulary:** amino acid, anticodon, codon, gene, messenger RNA, nucleotide, ribosome, RNA, RNA polymerase, transcription, transfer RNA, translation

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

1. Suppose you want to design and build a house. How would you communicate your design plans with the construction crew that would work on the house?

To communicate my design plans with the construction crew, I would show them my plan and I would then tell them how to do it.

2. Cells build large, complicated molecules, such as proteins. What do you think cells use as their "design plans" for proteins?

I think cells use DNA as their "design plans" for proteins.

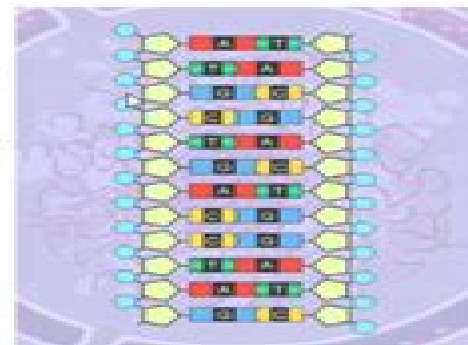
### **Gizmo Warm-up**

Just as a construction crew uses blueprints to build a house, a cell uses DNA as plans for building proteins. In addition to DNA, another nucleic acid, called **RNA**, is involved in making proteins. In the *RNA and Protein Synthesis* Gizmo, you will use both DNA and RNA to construct a protein out of **amino acids**.

1. DNA is composed of the bases adenine (A), cytosine (C), guanine (G), and thymine (T). RNA is composed of adenine, cytosine, guanine, and uracil (U).

Look at the SIMULATION pane. Is the displayed segment a part of a DNA or RNA molecule? How do you know?

It is a part of a DNA molecule, since there is a double helix.



2. **RNA polymerase** is a type of enzyme. Enzymes help chemical reactions occur quickly. Click the **Release enzyme** button, and describe what happens.

The enzymes split the hydrogens bonds in the middle.

# Rna And Protein Synthesis Gizmo Worksheet Answers

**Valerio Monesi,CNEN (Agency : Italy)**



## **Rna And Protein Synthesis Gizmo Worksheet Answers:**

Transfer RNA in Protein Synthesis Dolph L. Hatfield, Byeong J. Lee, Robert M. Pirtle, 1992      **A Review of Selected**  
**Research Relating RNA and Protein Synthesis with Memory** Marilyn S. Townsend, 1970      **RNA and Protein**  
**Synthesis During Cytodifferentiation in Fetal Rat Pancreas** John Willie Bynum, 1972      *Effect of Double-stranded RNA*  
*on Protein Synthesis in Cell-free Systems* Laurence Kay Grill, 1975      **DNA, RNA, and Protein Synthesis During the**  
**Mitotic Cell Cycle** Valerio Monesi, CNEN (Agency : Italy), 1970      *Studies on the Regulation of RNA and Protein Synthesis*  
*in Cultured Mammalian Cells* William McCormick, 1968      **Studies on the Regulation of RNA and Protein Synthesis in**  
**Developing Plant Cells** B. B. Biswas, Bose Institute. Department of Biochemistry, 1974      **The Timing of DNA, RNA and**  
**Protein Synthesis in the Hypotrich Stylonychia Notophora Stokes** David Thomas Vistica, 1970      **RNA and Protein**  
**Synthesis in Eggs and Embryos of Urechis Caupo** Meredith Charlotte Gould, 1967      **The Effect of Messenger RNA**  
**on Protein Synthesis in Echinoid Eggs and Zygotes** Anita Marie Colin, 1985      **Protein Synthesis and the RNA Code**  
Marshall W. Nirenberg, 1965      **RNA and Protein Synthesis in Four Heat-sensitive Mutants of Neurospora Crassa**  
Robin Ralls, 1980

This book delves into Rna And Protein Synthesis Gizmo Worksheet Answers. Rna And Protein Synthesis Gizmo Worksheet Answers is a crucial 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 Rna And Protein Synthesis Gizmo Worksheet Answers, encompassing both the fundamentals and more intricate discussions.

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

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