

Name: _____

Date: _____

Student Exploration: RNA and Protein Synthesis

Vocabulary: amino acid, anticodon, codon, gene, messenger RNA, nitrogenous base, 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?

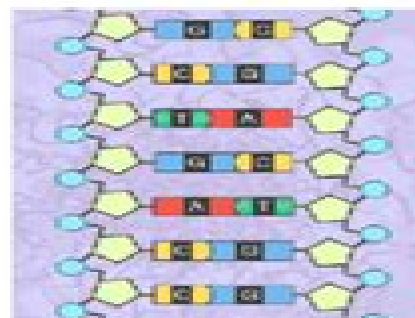
2. Cells build large, complicated molecules such as proteins. What do you think cells use as their “design plans” for proteins?

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 **nitrogenous 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?



2. **RNA polymerase** is a type of enzyme. Enzymes help chemical processes occur quickly. Drag the yellow RNA polymerase molecule onto the DNA strand. Describe what happens.

Ribosomes And Protein Synthesis Answer Key

Marcel A. Müller



Ribosomes And Protein Synthesis Answer Key:

This book delves into Ribosomes And Protein Synthesis Answer Key. Ribosomes And Protein Synthesis Answer Key is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Ribosomes And Protein Synthesis Answer Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Ribosomes And Protein Synthesis Answer Key
 - Chapter 2: Essential Elements of Ribosomes And Protein Synthesis Answer Key
 - Chapter 3: Ribosomes And Protein Synthesis Answer Key in Everyday Life
 - Chapter 4: Ribosomes And Protein Synthesis Answer Key in Specific Contexts
 - Chapter 5: Conclusion
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 3. In chapter 2, this book will delve into the foundational concepts of Ribosomes And Protein Synthesis Answer Key. This chapter will elucidate the essential principles that must be understood to grasp Ribosomes And Protein Synthesis Answer Key in its entirety.
 4. In chapter 3, this book will examine the practical applications of Ribosomes And Protein Synthesis Answer Key in daily life. This chapter will showcase real-world examples of how Ribosomes And Protein Synthesis Answer Key can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Ribosomes And Protein Synthesis Answer Key in specific contexts. This chapter will explore how Ribosomes And Protein Synthesis Answer Key is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Ribosomes And Protein Synthesis Answer Key. 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 Ribosomes And Protein Synthesis Answer Key.

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