

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?

You would send the crew a blueprint of the house.

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

mRNA carries the instructions for building proteins to the ribosomes

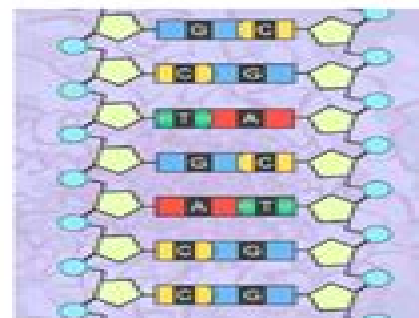
Gizmo Warm-up

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?

It is DNA because it contains Thymine and is double stranded.



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.

The DNA splits and new nucleotides are added to the leading strand.

Rna And Protein Synthesis Gizmo Answer Key Activity C

JA Banks



Rna And Protein Synthesis Gizmo Answer Key Activity C:

Delve into the emotional tapestry woven by Emotional Journey with in Dive into the Emotion of **Rna And Protein Synthesis Gizmo Answer Key Activity C** . This ebook, available for download in a PDF format (PDF Size: *), is more than just words on a page; itis a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

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Table of Contents Rna And Protein Synthesis Gizmo Answer Key Activity C

1. Understanding the eBook Rna And Protein Synthesis Gizmo Answer Key Activity C
 - The Rise of Digital Reading Rna And Protein Synthesis Gizmo Answer Key Activity C
 - Advantages of eBooks Over Traditional Books
2. Identifying Rna And Protein Synthesis Gizmo Answer Key Activity C
 - 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 Rna And Protein Synthesis Gizmo Answer Key Activity C
 - User-Friendly Interface
4. Exploring eBook Recommendations from Rna And Protein Synthesis Gizmo Answer Key Activity C
 - Personalized Recommendations
 - Rna And Protein Synthesis Gizmo Answer Key Activity C User Reviews and Ratings
 - Rna And Protein Synthesis Gizmo Answer Key Activity C and Bestseller Lists
5. Accessing Rna And Protein Synthesis Gizmo Answer Key Activity C Free and Paid eBooks
 - Rna And Protein Synthesis Gizmo Answer Key Activity C Public Domain eBooks
 - Rna And Protein Synthesis Gizmo Answer Key Activity C eBook Subscription Services
 - Rna And Protein Synthesis Gizmo Answer Key Activity C Budget-Friendly Options

6. Navigating Rna And Protein Synthesis Gizmo Answer Key Activity C eBook Formats
 - ePub, PDF, MOBI, and More
 - Rna And Protein Synthesis Gizmo Answer Key Activity C Compatibility with Devices
 - Rna And Protein Synthesis Gizmo Answer Key Activity C Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Rna And Protein Synthesis Gizmo Answer Key Activity C
 - Highlighting and Note-Taking Rna And Protein Synthesis Gizmo Answer Key Activity C
 - Interactive Elements Rna And Protein Synthesis Gizmo Answer Key Activity C
8. Staying Engaged with Rna And Protein Synthesis Gizmo Answer Key Activity C
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Rna And Protein Synthesis Gizmo Answer Key Activity C
9. Balancing eBooks and Physical Books Rna And Protein Synthesis Gizmo Answer Key Activity C
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Rna And Protein Synthesis Gizmo Answer Key Activity C
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Rna And Protein Synthesis Gizmo Answer Key Activity C
 - Setting Reading Goals Rna And Protein Synthesis Gizmo Answer Key Activity C
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Rna And Protein Synthesis Gizmo Answer Key Activity C
 - Fact-Checking eBook Content of Rna And Protein Synthesis Gizmo Answer Key Activity C
 - 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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