



Name:

Date:

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?

I would use a blueprint. My ideas would be put in a thorough, organized, and concise plan.

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

I think that the cells use DNA as their design plan. DNA holds the information needed for the proteins to function. It is thorough with the placement of amino acids and nucleotides.

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**.

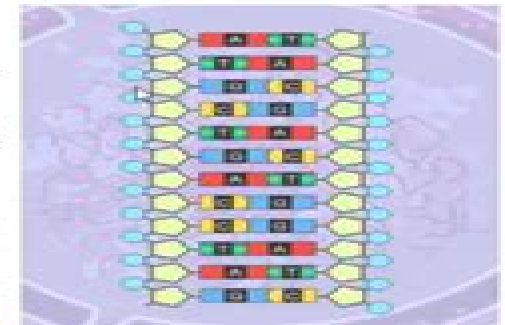
1. DNA is composed of the bases adenine (A), cytosine (C), guanine (G), and thymine (T). RNA is composed of adenine, cytosine, guanine, and uracil (U).

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

It is a DNA molecule because it has pairs of thymine with adenine.

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

RNA polymerase splits up the DNA.



Gizmo Answers For Rna And Protein Synthesis

Brendan G. Carr

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Gizmo Answers For Rna And Protein Synthesis:

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Table of Contents Gizmo Answers For Rna And Protein Synthesis

1. Understanding the eBook Gizmo Answers For Rna And Protein Synthesis
 - The Rise of Digital Reading Gizmo Answers For Rna And Protein Synthesis
 - Advantages of eBooks Over Traditional Books
2. Identifying Gizmo Answers For Rna And Protein Synthesis
 - 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 Gizmo Answers For Rna And Protein Synthesis
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gizmo Answers For Rna And Protein Synthesis
 - Personalized Recommendations
 - Gizmo Answers For Rna And Protein Synthesis User Reviews and Ratings
 - Gizmo Answers For Rna And Protein Synthesis and Bestseller Lists
5. Accessing Gizmo Answers For Rna And Protein Synthesis Free and Paid eBooks

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

Gizmo Answers For Rna And Protein Synthesis Introduction

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