

Name:

Date:

2/6/23

## 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, nitrogenous base, nucleotide, ribosome, RNA, RNA polymerase, transcription, transfer RNA, translation

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

- 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 show them what my thinking is and see how we could make it happen.

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

I would think that cells use DNA as their "design plans" and result with protein.

### 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**.

- 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 a part of the DNA because it's a double helix.

- 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 enzyme splits the DNA into two separated strands.



# Gradpoint Answer Key Biology B

**Yijin Wang**



**Gradpoint Answer Key Biology B:**

## Whispering the Strategies of Language: An Psychological Journey through **Gradpoint Answer Key Biology B**

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### **Table of Contents Gradpoint Answer Key Biology B**

1. Understanding the eBook Gradpoint Answer Key Biology B
  - The Rise of Digital Reading Gradpoint Answer Key Biology B
  - Advantages of eBooks Over Traditional Books
2. Identifying Gradpoint Answer Key Biology B
  - 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 Gradpoint Answer Key Biology B
  - User-Friendly Interface
4. Exploring eBook Recommendations from Gradpoint Answer Key Biology B

- Personalized Recommendations
  - Gradpoint Answer Key Biology B User Reviews and Ratings
  - Gradpoint Answer Key Biology B and Bestseller Lists
5. Accessing Gradpoint Answer Key Biology B Free and Paid eBooks
    - Gradpoint Answer Key Biology B Public Domain eBooks
    - Gradpoint Answer Key Biology B eBook Subscription Services
    - Gradpoint Answer Key Biology B Budget-Friendly Options
  6. Navigating Gradpoint Answer Key Biology B eBook Formats
    - ePub, PDF, MOBI, and More
    - Gradpoint Answer Key Biology B Compatibility with Devices
    - Gradpoint Answer Key Biology B Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Gradpoint Answer Key Biology B
    - Highlighting and Note-Taking Gradpoint Answer Key Biology B
    - Interactive Elements Gradpoint Answer Key Biology B
  8. Staying Engaged with Gradpoint Answer Key Biology B
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Gradpoint Answer Key Biology B
  9. Balancing eBooks and Physical Books Gradpoint Answer Key Biology B
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Gradpoint Answer Key Biology B
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Gradpoint Answer Key Biology B
    - Setting Reading Goals Gradpoint Answer Key Biology B
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Gradpoint Answer Key Biology B

- Fact-Checking eBook Content of Gradpoint Answer Key Biology B
  - 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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