



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.)

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

2. 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**.

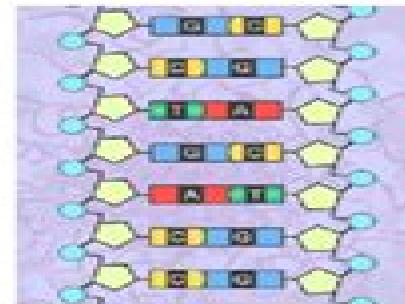
1. DNA is composed of the **nitrogenous bases** adenine (A), cytosine (C), guanine (G), and thymine (T). RNA is composed of adenine, cytosine, guanine, and uracil (U).

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

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

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 enzyme splits the DNA into two separated strands.



## Activity A Ions Answer Key Gizmo

**Camilla Rothe**

**Activity A Ions Answer Key Gizmo:**

## Unveiling the Energy of Verbal Beauty: An Mental Sojourn through **Activity A Ions Answer Key Gizmo**

In a world inundated with monitors and the cacophony of instantaneous transmission, the profound energy and emotional resonance of verbal artistry frequently fade into obscurity, eclipsed by the continuous assault of noise and distractions. However, located within the musical pages of **Activity A Ions Answer Key Gizmo**, a captivating work of literary splendor that impels with organic emotions, lies an unique trip waiting to be embarked upon. Composed with a virtuoso wordsmith, this magical opus manuals viewers on a mental odyssey, lightly revealing the latent potential and profound affect stuck within the complicated web of language. Within the heart-wrenching expanse of this evocative evaluation, we can embark upon an introspective exploration of the book is key styles, dissect its charming writing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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### **Table of Contents Activity A Ions Answer Key Gizmo**

1. Understanding the eBook Activity A Ions Answer Key Gizmo
  - The Rise of Digital Reading Activity A Ions Answer Key Gizmo
  - Advantages of eBooks Over Traditional Books
2. Identifying Activity A Ions Answer Key Gizmo
  - 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 Activity A Ions Answer Key Gizmo
  - User-Friendly Interface
4. Exploring eBook Recommendations from Activity A Ions Answer Key Gizmo
  - Personalized Recommendations

- Activity A Ions Answer Key Gizmo User Reviews and Ratings
- Activity A Ions Answer Key Gizmo and Bestseller Lists

5. Accessing Activity A Ions Answer Key Gizmo Free and Paid eBooks

- Activity A Ions Answer Key Gizmo Public Domain eBooks
- Activity A Ions Answer Key Gizmo eBook Subscription Services
- Activity A Ions Answer Key Gizmo Budget-Friendly Options

6. Navigating Activity A Ions Answer Key Gizmo eBook Formats

- ePUB, PDF, MOBI, and More
- Activity A Ions Answer Key Gizmo Compatibility with Devices
- Activity A Ions Answer Key Gizmo Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Activity A Ions Answer Key Gizmo
- Highlighting and Note-Taking Activity A Ions Answer Key Gizmo
- Interactive Elements Activity A Ions Answer Key Gizmo

8. Staying Engaged with Activity A Ions Answer Key Gizmo

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Activity A Ions Answer Key Gizmo

9. Balancing eBooks and Physical Books Activity A Ions Answer Key Gizmo

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Activity A Ions Answer Key Gizmo

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Activity A Ions Answer Key Gizmo

- Setting Reading Goals Activity A Ions Answer Key Gizmo
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Activity A Ions Answer Key Gizmo

- Fact-Checking eBook Content of Activity A Ions Answer Key Gizmo

- 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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