



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

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.

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 impulses 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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