



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**.

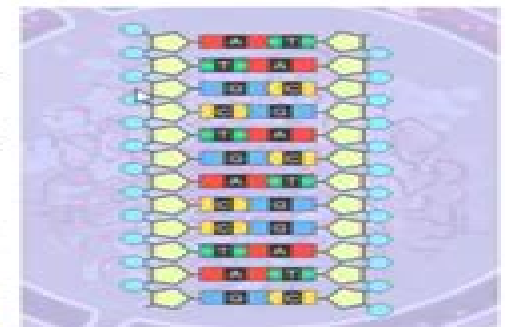
1. DNA is composed of the bases adenine (A), cytosine (C), guanine (G), and thymine (T). RNA is composed of adenine, cytosine, guanine, and uracil (U).

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

RJ Alexander



Gizmo Answers For Rna And Protein Synthesis:

Decoding **Gizmo Answers For Rna And Protein Synthesis**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Gizmo Answers For Rna And Protein Synthesis**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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