



Name: _____

Date: _____

3/6/23

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.

Biology Introduction To Genetics Packet Answers

L Reisser



Biology Introduction To Genetics Packet Answers:

Unveiling the Magic of Words: A Report on "**Biology Introduction To Genetics Packet Answers**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Biology Introduction To Genetics Packet Answers**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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