

Name: _____

Date: _____

Student Exploration: RNA and Protein Synthesis

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?

You would send the crew a blueprint of the house.

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

mRNA carries the instructions for building proteins to the ribosomes

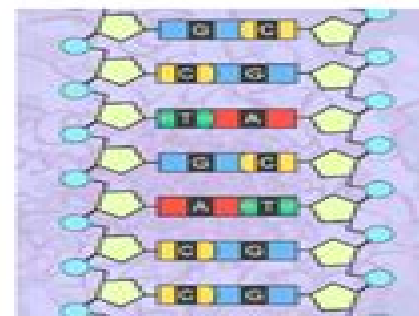
Gizmo Warm-up

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 DNA because it contains Thymine and is double stranded.



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 DNA splits and new nucleotides are added to the leading strand.

Rna And Protein Synthesis Gizmo Answer Key Activity C

Mark Steyvers

A red circular graphic with a gradient, appearing as a partial circle or a thick curved line, located to the right of the name Mark Steyvers.

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