



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?

To communicate design plans with the construction crew you would need to create and distribute blueprints and physical versions of design plans. In a cell this would be equivalent to using DNA as blueprints for living things, more specifically a code for making proteins. Cells build large, complicated molecules, such as proteins, which would be the said house that is planning to be built.

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

Cells use DNA as design plans and blueprints for building proteins. RNA is also involved in the process of making proteins. Together, DNA and RNA construct proteins.

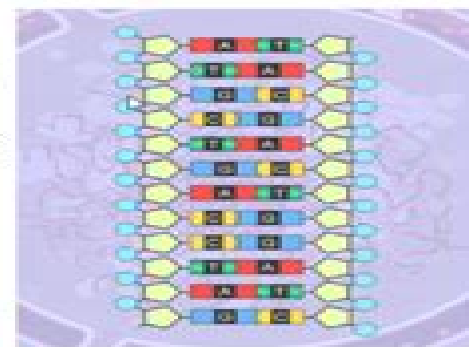
Gizmo Warm-up

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 part of a DNA molecule because it does not contain Uracil, as RNA should.



2. **RNA polymerase** is a type of enzyme. Enzymes help chemical reactions occur quickly. Click the **Release enzyme** button, and describe what happens.

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