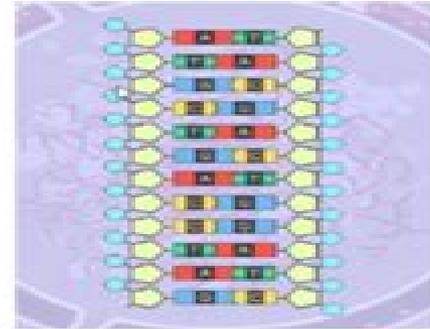


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## Student Exploration: RNA and Protein Synthesis

### 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?

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

<b>Activity A:</b> <b>Transcription</b>	<u>Get the Gizmo ready:</u> <ul style="list-style-type: none"> <li>• If necessary, click <b>Release enzyme</b>.</li> </ul>	
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**Introduction:** The first stage of building a protein involves a process known as **transcription**. In transcription, a segment of DNA serves as a template to produce a complementary strand of RNA. This complementary strand is called **messenger RNA**, or mRNA.

**Question:** What occurs during transcription?

1. Experiment: Like DNA, RNA follows base-pairing rules. Experiment to find which RNA **nucleotide** on the right side of the Gizmo will successfully pair with the thymine at the top of the template strand of DNA. (NOTE: The DNA on the right side is the template strand.)

Which RNA base bonded with the thymine? \_\_\_\_\_

# Rna And Protein Synthesis Gizmo Worksheet Answers

**Brendan G. Carr**



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