

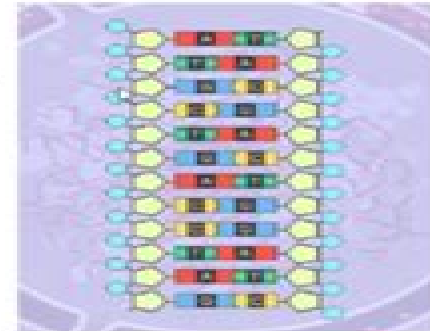
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## Student Exploration: RNA and Protein Synthesis

### 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.

### Activity A: Transcription

#### Get the Gizmo ready:

- If necessary, click **Release enzyme**.



**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 Answer Key Activity C

**Marshall W. Nirenberg**



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**Protein Synthesis and the RNA Code** Marshall W. Nirenberg,1965      **The Metabolism of Unstable RNA and Its Relation to Protein Synthesis** Winston Albert Salser,1966      Protein Synthesis and Messenger RNA Metabolism David P. Fan,1965      **The Utilisation of Haemoglobin Messenger RNA in Cell-free Protein Synthesis** Charles Pragnell, King's College London. Department of Biochemistry,1972

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