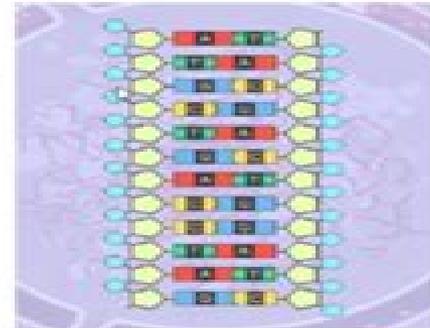


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## Student Exploration: RNA and Protein Synthesis

### 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 Answer Key

**Saul A. Slapikoff**



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**Effect of Double-stranded RNA on Protein Synthesis in Cell-free Systems** Laurence Kay Grill,1975     **A Study of RNA and Protein Synthesis in Frog Embryos and Oocytes Following Microinjection of Ribosomes and RNA** John Wesley Rollins,1972     **RNA and Protein Synthesis in Four Heat-sensitive Mutants of Neurospora Crassa** Robin Ralls,1980     Protein Synthesis, DNA Synthesis and Repair, RNA Synthesis, Energy-linked ATPases, Synthetases ,1974  
Involvement of RNA in the Synthesis of Proteins ,     **Protein Synthesis and the RNA Code** Marshall W. Nirenberg,1965     *Protein Synthesis, DNA Synthesis and Repairs, RNA Synthesis, Energy-linked ATPases, Synthetases* Paul D. Boyer,1974     **Step by Step Review of Protein Synthesis (Quick Biology Review and Handout)** E Staff, Step by Step Review of Protein Synthesis Quick Biology Review and Handout Learn and review on the go Use Quick Review Biology Lecture Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Perfect for high school college medical and nursing students and anyone preparing for standardized examinations such as the MCAT AP Biology Regents Biology and more     *Nucleic Acid and Protein Synthesis* University of Western Australia. Department of Biochemistry,1973     *Protein Synthesis and Messenger RNA Metabolism* David P. Fan,1965     **The Metabolism of Unstable RNA and Its Relation to Protein Synthesis** Winston Albert Salser,1966     **The Relationship of RNA Synthesis to Protein Synthesis, During Uracil Starvation, in a Uracil Requiring Strain of S. Cerevisiae** Joseph Carava Bullaro,1970     *In Vitro Protein Synthesis by Aplysia Bag Cell RNA* Elisa Blum,1981     **Studies on Protein Synthesis** Saul A. Slapikoff,1964     *Nucleic Acids and Protein Synthesis* Kivie Moldave, Lawrence Grossman,1971     **The Role of RNA in the Regulation of Protein Synthesis in Escherichia Coli** Burton S. Guttman,1963     *Initiation of Protein Synthesis by the Eukaryotic Translational Apparatus on Circular RNA Templates* Chang-You Chen,1995     Fidelity of Protein Synthesis and Transfer RNA During Aging Fay Dingley,1974  
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