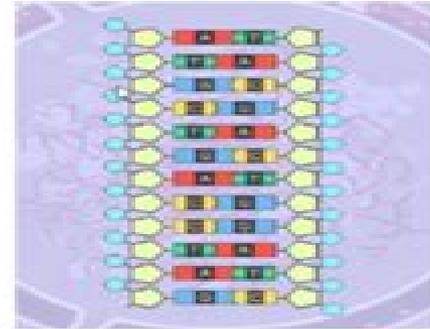


Name: _____ Date: _____

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	<u>Get the Gizmo ready:</u> <ul style="list-style-type: none"> • If necessary, click Release enzyme. 	
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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

L Towner



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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 **Studies of Initiation of Protein Synthesis and Activating Enzyme: Transfer-Rna Complex Formation** ,1973 **Studies on Protein Synthesis** June M. Fessenden,1963

Rna And Protein Synthesis Gizmo Answer Key: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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