



Name: _____

Date: _____

3/6/23

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, nitrogenous base, 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?

I would show them what my thinking is and see how we could make it happen.

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

I would think that cells use DNA as their "design plans" and result with protein.

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 **nitrogenous 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 the DNA because it's a double helix.

2. **RNA polymerase** is a type of enzyme. Enzymes help chemical processes occur quickly. Drag the yellow RNA polymerase molecule onto the DNA strand. Describe what happens.

The enzyme splits the DNA into two separated strands.

Biology Introduction To Genetics Packet Answers

J Rink



Biology Introduction To Genetics Packet Answers:

The American Biology Teacher ,2007-08 **Decision: Donation** ,2004 Contemporary Approaches To Research On Learning Environments: Worldviews Darrell Fisher,Myint Swe Khine,2006-05-25 Learning environment research has undergone considerable growth in the past thirty years and has now reached a stage of notable diversity and internationalization Earlier studies often used questionnaires to assess learning environments but today both qualitative and quantitative approaches are used Many contemporary studies are a productive combination of these two approaches This volume brings together prominent educators and researchers from around the world to share their contemporary research on educational learning environments The chapters provide information on recent trends and developments and effective applications of different methods to improve teaching and learning The book will be a critical and specialized source that describes recent advances in learning environment studies across all continents The contributors come from Australia Belgium Cyprus Finland India Indonesia Israel Japan The Netherlands New Zealand Singapore Turkey Taiwan Thailand and the USA Teacher's Wraparound Edition: Twe Biology Everyday Experience Albert Kaskel,1994-04-19 **Resources in Education** ,1991 Serves as an index to Eric reports microform Wisconsin BioIssues ,1992 **The Science Teacher** ,1999 SCC Library has 1964 cur Illinois Chemistry Teacher ,1999-03 **Bibliography of Agriculture** ,1996
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