



Name:

Date:

2/6/23

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.

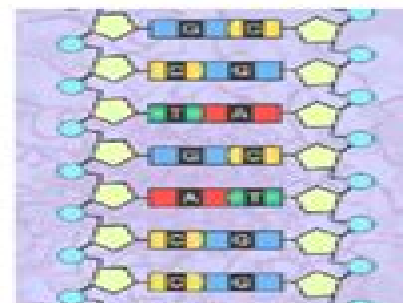
Gizmo Warm-up

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.

Pathway3 With Answer Key

Mary Jo Boyer



Pathway3 With Answer Key:

MYCDCGP - Early Detection Of Common Cancers And Referral Pathways - Module For Health Care Providers Bahagian Kawalan Penyakit, Kementerian Kesihatan Malaysia, **Basic Concepts of Plant Biotechnology (With MCQ's) V.** Prakash,N. Tripathi,2018-10-01 The book entitled Basic Concepts of Plant Biotechnology with MCQs has been publishing when the recombinant DNA and sequencing of human and many plant genomes have been completed This book contains almost 3000 multiple choice questions as well as fill in the blanks with answers covering all aspects of molecular biological systems of prokaryotes and eukaryotes In writing the first edition the aim is to provide all simple and difficult questions for weak students in plant molecular biology that have no more knowledge and have more problems in solving the questions Therefore in this book we included questions belongs to all basic concept of molecular biology which will provide strong knowledge to students preparing for competitive exams of life science like CSIR NET DBT JRF ICMR JRF ICAR NET ARS PSC graduate and post graduate exams *CFA Exam Review Complete Set 2025* MUHAMMAD ZAIN,2024-11-11 Ace the CFA Exam with Zain Academy s Comprehensive CFA Exam Review Complete Set 2025 Now at 45% Off Unlock your path to becoming a Chartered Financial Analyst with the CFA Exam Review Complete Set 2025 by Zain Academy This all inclusive set covers CFA Level 1 Study Guide 2025 CFA Level 1 Question Bank 2025 CFA Level 2 Study Guide 2025 CFA Level 2 Question Bank 2025 CFA Level 3 Study Guide 2025 and CFA Level 3 Question Bank 2025 Our expertly crafted materials ensure a rigorous exam focused CFA preparation equipping you with every tool you need for success on the CFA exams Why Choose the CFA Exam Review Complete Set 2025 Immersive Learning With 6 419 study points using a questioning mind approach 5 244 true false questions 3 066 fill in the blank exercises 1 345 word search puzzles 799 one word answer questions 5 223 multiple choice questions 480 essay questions and 11 mock exams Zain Academy covers every aspect of the CFA Exam in detail Smart Learning Techniques Our CFA Study Guide is designed for comprehensive understanding emphasizing key knowledge points with a questioning mind approach that drives critical thinking Exam Focused Question Banks Our CFA Question Banks feature exam grade questions with in depth explanations helping you tackle high IQ challenges in the CFA Exam with confidence Flexible Unlimited Access Your CFA Exam Review Course 2025 subscription is free from time and device restrictions fully optimized for all screen sizes and available as an integrated printable PDF Plan Your CFA Journey Structured Flexible and Affordable For effective results dedicate at least three hours daily and six hours on weekends to CFA study over 12 months The CFA Exam Review Complete Set ensures that every study hour is maximized for efficient learning and concept retention Free Learning Videos and Personal Support With free CFA Learning Videos on our YouTube channel we boost your knowledge retention by 25% saving you from costly subscriptions and in person classes Plus Zain Academy offers personal support via WhatsApp and Email with a dedicated CFA Exam mentor to guide you every step of the way Join the CFA Community Become part of the CFA WhatsApp Group for exclusive access to articles blog posts study

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