



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.

# Answer Sheet Of Exploration Building Dna

**Herbert A. Smith**



## Answer Sheet Of Exploration Building Dna:

*Cr 9 DNA* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004      *Exploring Immunology* Gordon MacPherson, Jon Austyn, 2013-03-01 This concise introductory textbook uses carefully chosen examples from clinical and experimental observations to provide an insight into the principles underlying the immune system As a result it encourages readers to ask critical questions in order to further advance our understanding of this unique organ Both authors are experienced lecturers and highly regarded researchers The book is professionally illustrated in four color throughout with beautiful artwork which by itself distinguish the title from any comparable title Website [http://www.wiley-vch.de/home/immunology/target\\_blank](http://www.wiley-vch.de/home/immunology/target_blank)      *Prentice Hall Exploring Life Science* Anthea Maton, 1997      **Public Key Cryptography** Hideki Imai, Yuliang Zheng, 2000-01-05 This book constitutes the refereed proceedings of the Third International Workshop on Practice and Theory in Public Key Cryptography PKC 2000 held in Melbourne Victoria Australia in January 2000 The 31 revised full papers presented were carefully reviewed and selected from 70 submissions Among the topics addressed are cryptographic protocols digital signature schemes elliptic curve cryptography discrete logarithm authentication encryption protocols key recovery time stamping shared cryptography certification zero knowledge proofs auction protocols and mobile communications security      *Neural Information Processing* Biao Luo, Long Cheng, Zheng-Guang Wu, Hongyi Li, Chaojie Li, 2023-11-25 The nine volume set constitutes the refereed proceedings of the 30th International Conference on Neural Information Processing ICONIP 2023 held in Changsha China in November 2023 The 1274 papers presented in the proceedings set were carefully reviewed and selected from 652 submissions The ICONIP conference aims to provide a leading international forum for researchers scientists and industry professionals who are working in neuroscience neural networks deep learning and related fields to share their new ideas progress and achievements      **Tg/Sci+ Interactv Explortns CD-ROM Blue** Holt Rinehart & Winston, 1998      **Holt Biology**, 2004      **Cells, Teacher's Guide**,      *Annales Societatis Mathematicae Polonae* Polskie Towarzystwo Matematyczne, 1998      **Chapter Resource 11 Gene Technology Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004      *Biology Digest*, 1985-12      **Human Biology** Craig H. Heller, 1999      *Exploring Living Things* Herbert A. Smith, 1980      **International Directory of Company Histories** Jay P. Pederson, Thomas Derdak, 2006-04 Multi volume major reference work bringing together histories of companies that are a leading influence in a particular industry or geographic location For students job candidates business executives historians and investors      **Jasmonates and Brassinosteroids in Plants** Ramakrishna Akula, Geetika Sirhindi, 2022-09-27 This book provides a comprehensive update on recent developments of Jasmonates JAs and Brassinosteroids BRs in plant signalling and biotechnological applications Over the last few decades an enormous amount of research data has been generated on these two signalling molecules This valuable compilation will enhance the basic understanding of JAs and BRs mechanism of actions ensuing tolerance mechanism of crops under climate changes for

sustainable agriculture and human welfare This book covers topics regarding the occurrence of JAs and BRs in plants biosynthesis role in plant growth and development role of these PGRs during various abiotic stress tolerance in plants crosstalk of Reactive Oxygen Species ROS and plant stress mitigation regulation of JAs and BRs signaling pathways by microRNA along with physiological and anatomical roles of JAs and BRs as wound healing regeneration and cell fate decisions The cross talk of JAs and BRs with neurotransmitters in plant growth and development Bio fortification of crop plants with BRs in managing in human health issues chapter enlightened new role of BRs in human wellbeing This book will be beneficial to scientists researchers agriculturists horticulturists industries related to the crop and food production KEY FEATURES Reviews the global scientific literature and experimental data of the authors on the occurrence of JAs and BRs in various plants Update information on recent developments of JAs and BRs signalling and biotechnological applications in plants Highlights the physiological metabolic and molecular mechanism of JAs and BRs under variable climates Addresses the abiotic and biotic tolerance management by JAs and BRs Describes the role of JAs and BRs in sustainable agriculture and human welfare in eco friendly manner **School Library Journal** ,2007 White Paper on Science and Technology ,2007 *Computing in Civil Engineering and Geographic Information Systems Symposium* Barry J. Goodno,Jeff R. Wright,1992 **Journal of the British Interplanetary Society** ,1978 **The New York Times Index** ,2003

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