Name Period Date

# Chapter 13 Worksheet Packet

### Ch. 13.1 RNA

#### Lesson Objectives

Contrast RNA and DNA. Explain the process of transcription.

#### Lesson Summary

The Role of RNA RNA (ribonucleic acid) is a nucleic acid like DNA. It consists of a long chain of nucleotides. The RNA base sequence directs the production of proteins. Ultimately, cell proteins result in phenotypic traits. The main differences between RNA and DNA are:

The sugar in RNA is ribose instead of deoxyribose.

RNA is generally single-stranded and not double-stranded like DNA.

RNA contains uracil in place of thymine.

RNA can be thought of as a disposable copy of a segment of DNA. Most RNA molecules are involved in protein synthesis. The three main types of RNA are:

Messenger RNA (mRNA) carries copies of instructions for polypeptide synthesis from the nucleus to ribosomes in the cytoplasm.

Ribosomal RNA (rRNA) forms an important part of both subunits of the ribosomes, the cell structures where proteins are assembled.

Transfer RNA (IRNA) carries amino acids to the ribosome and matches them to the coded mRNA message.

FINA Synthesis Most of the work of making RNA takes place during transcription.

In transcription, segments of DNA serve as templates to produce complementary RNA molecules. In prokaryotes, RNA synthesis and protein synthesis takes place in the cytoplasm. In eukaryotes, RNA is produced in the cell's nucleus and then moves to the cytoplasm to play a role in the

production of protein. The following focuses on transcription in eukaryotic cells.

The enzyme RNA polymerase binds to DNA during transcription and separates the DNA strands. It then uses one strand of DNA as a template from which to assemble nucleotides into a complementary strand of RNA.

RNA polymerase binds only to **promoters**, regions of DNA that have specific base sequences. Promoters are signals to the DNA molecule that show RNA polymerase exactly where to begin making RNA. Similar signals cause transcription to stop when a new RNA molecule is completed.

RNA may be "edited" before it is used. Portions that are cut out and discarded are called **introns**. The remaining pieces, known as **exons**, are then spliced back together to form the final mRNA.

#### The Role of RNA

Complete the table to contrast the structures of DNA and RNA.

	Sugar	Number of Strands	Bases
DINA	100 mm 100 mm 100 mm		
RINA		single	uracil

- 2.
- 2. On the lines provided, identify each kind of RNA.
  - a. transfer RNA b messenger RNA

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**A Loxley** 

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# **Table of Contents Section 1 Dna Technology Study Guide Answers**

- 1. Understanding the eBook Section 1 Dna Technology Study Guide Answers
  - The Rise of Digital Reading Section 1 Dna Technology Study Guide Answers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Section 1 Dna Technology Study Guide Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Section 1 Dna Technology Study Guide Answers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Section 1 Dna Technology Study Guide Answers
  - Personalized Recommendations
  - Section 1 Dna Technology Study Guide Answers User Reviews and Ratings
  - Section 1 Dna Technology Study Guide Answers and Bestseller Lists

- 5. Accessing Section 1 Dna Technology Study Guide Answers Free and Paid eBooks
  - Section 1 Dna Technology Study Guide Answers Public Domain eBooks
  - Section 1 Dna Technology Study Guide Answers eBook Subscription Services
  - Section 1 Dna Technology Study Guide Answers Budget-Friendly Options
- 6. Navigating Section 1 Dna Technology Study Guide Answers eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Section 1 Dna Technology Study Guide Answers Compatibility with Devices
  - Section 1 Dna Technology Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Section 1 Dna Technology Study Guide Answers
  - Highlighting and Note-Taking Section 1 Dna Technology Study Guide Answers
  - Interactive Elements Section 1 Dna Technology Study Guide Answers
- 8. Staying Engaged with Section 1 Dna Technology Study Guide Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Section 1 Dna Technology Study Guide Answers
- 9. Balancing eBooks and Physical Books Section 1 Dna Technology Study Guide Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Section 1 Dna Technology Study Guide Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Section 1 Dna Technology Study Guide Answers
  - Setting Reading Goals Section 1 Dna Technology Study Guide Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Section 1 Dna Technology Study Guide Answers
  - Fact-Checking eBook Content of Section 1 Dna Technology Study Guide Answers
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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