

DNA & RNA

GUIDED READING & PRACTICE WORKSHEETS

RNA

1

(1) RNA (ribonucleic acid) is a single-stranded acid that stores temporary code or genetic information. The process of making proteins. The genetic information in DNA is transcribed into RNA, which is then translated into proteins in a process called the Central Dogma of Biology. It contains the code (instructions) that tell cells how to carry out a variety of important functions in the human body.

(2) Like DNA, RNA is composed of a long chain of nucleotides. However, unlike DNA, RNA is composed of a single-stranded molecule, and contains the sugar ribose instead of deoxyribose. RNA can be a relatively short (20 nucleotides or higher) molecule or it can be long, and extended over several pages with several codons and anticodons.

(3) There are three main types of RNA, each with its own unique function:

- 1. Messenger RNA (mRNA) carries genetic information from DNA in the nucleus for creating a complementary strand of protein from the code on the RNA strand. Once this strand carries that genetic information, it leaves the nucleus and carries the instructions for how proteins in the cytoplasm differ in this replication.
- 2. Transfer RNA (tRNA) also carries the genetic information from mRNA into a specific sequence of amino acids, which are the basic building blocks of proteins. tRNA carries genetic codes and is the RNA responsible for building a 3D (three-dimensional) genetic code in the cytoplasm.
- 3. Ribosomal RNA (rRNA) affects the rate of protein synthesis and is a major component of ribosomes. Ribosomes join proteins and are found at the cytoplasm of a cell. Proteins are synthesized by the rRNA in the cytoplasm, and the ribosomes are the site of the rRNA.





RNA PRACTICE

1. What is the full name of RNA?

2. What is the primary role of RNA?

3. How many strands does a molecule of RNA consist of?

4. What are the building blocks of proteins?

5. Summarize the roles of the following types of RNA.

mRNA	tRNA	rRNA

DNA

1

(1) DNA (deoxyribonucleic acid) is a double-stranded acid that stores permanent genetic information that codes for all the structure, function, development, and development of all living organisms. It is written in the code on DNA. DNA is a double-stranded molecule in the shape of a double helix.

(2) Nucleotides are the building blocks of DNA. Each nucleotide consists of deoxyribose sugar, a phosphate group, and a nitrogenous base. The sugar and phosphate groups are linked together by hydrogen bonds to form the sugar-phosphate backbone of DNA. There are four types of nitrogenous bases in DNA: adenine (A), guanine (G), cytosine (C), and thymine (T).

DNA PRACTICE

1. What is the full name of DNA?

2. What is the primary role of DNA?

3. How many strands does a molecule of DNA consist of?

4. What are the building blocks of proteins?

5. Summarize the roles of the following types of DNA.

mDNA	tDNA	rDNA

DNA VS. RNA

NAME: _____ DATE: _____

1. Complete the puzzle.



16. Complete the puzzle.



17. Read each statement and determine if it describes DNA, RNA or both. Place a checkmark in the column for the appropriate best description.

Characteristics	DNA	RNA
Contains deoxyribose sugar		
Contains ribonucleic sugar		
Single-stranded		
Double-stranded		
Found in the nucleus		
Found in the cytoplasm		
Acts as a template		
Acts as a messenger		
Contains uracil		
Contains thymine		
Contains guanine		
Contains adenine		
Contains cytosine		
Contains phosphate		
Contains deoxyribose		
Contains ribose		
Contains nitrogenous base		
Acts as a template		
Acts as a messenger		
Acts as a catalyst		
Acts as a structural component		
Acts as a storage component		
Acts as a transport component		
Acts as a signaling component		
Acts as a regulatory component		
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