

DNA & RNA

GUIDED READING & PRACTICE WORKSHEETS

RNA

1

(1) What information level is a unit of nucleic acid that stores a sequence code for protein synthesis. The principle of "mating partners." The genetic information in DNA is transcribed into RNA, which is then translated into proteins in a process called the Central Dogma of Biology. Proteins are the building blocks of the cell and carry out a variety of important functions in the human body.

(2) What DNA, RNA is composed of a string of bases of nucleotides. Nucleotides consist of a phosphate group, a sugar, and a nitrogenous base. The sequence of bases in a nucleotide chain determines the genetic code. The sequence of bases in a nucleotide chain determines the genetic code. The sequence of bases in a nucleotide chain determines the genetic code.

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

1. Messenger RNA (mRNA) carries the genetic information from DNA in the nucleus for creating a complementary strand of protein from the code on the DNA strand. Once this strand is made, a genetic information, it carries the message and carries the instructions for the proteins in the cytoplasm. (mRNA is the blueprint for the proteins.)

2. Transfer RNA (tRNA) carries the genetic information from mRNA into a specific sequence of amino acids, which are the building blocks of proteins. tRNA carries the genetic code and is the key to the relationship with the amino acids. (tRNA is the key to the relationship with the amino acids.)

3. Ribosomal RNA (rRNA) is the site of protein synthesis and is a major component of ribosomes. Ribosomes are protein and RNA structures that are found in the cytoplasm of a cell. Proteins are synthesized by the ribosomes. The ribosomes are the site of protein synthesis. (rRNA is the site of protein synthesis.)





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RNA PRACTICE

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- What is the full name of RNA?
- What is the primary role of RNA?
- How many strands does a molecule of RNA consist of?
- What are the building blocks of proteins?
- Summarize the roles of the following types of RNA.

mRNA	tRNA	rRNA

DNA

1

(1) DNA (deoxyribonucleic acid) is a nucleic acid that carries the genetic information for the development and function of an organism. The genetic information in DNA is transcribed into RNA, which is then translated into proteins in a process called the Central Dogma of Biology. Proteins are the building blocks of the cell and carry out a variety of important functions in the human body.

(2) DNA is composed of a string of bases of nucleotides. Nucleotides consist of a phosphate group, a sugar, and a nitrogenous base. The sequence of bases in a nucleotide chain determines the genetic code. The sequence of bases in a nucleotide chain determines the genetic code. The sequence of bases in a nucleotide chain determines the genetic code.

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Kirk Schriefer, John Sivell



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