

Name _____

Date _____

DNA and RNA Structure and Function

Identify each choice that best complete the statement or answer questions!

1. What is the main function of DNA in a cell?

- A) Storing genetic information
- B) Producing energy
- C) Transporting nutrients
- D) Breaking down proteins

2. Which of the following is a structural difference between DNA and RNA?

- A) DNA contains uracil; RNA contains thymine
- B) DNA is single-stranded; RNA is double-stranded
- C) DNA contains thymine; RNA contains uracil
- D) DNA is found only in the cytoplasm

3. The building blocks of DNA and RNA are called:

- A) Amino acids
- B) Nucleotides
- C) Fatty acids
- D) Sugars

4. What type of sugar is found in DNA?

- A) Ribose
- B) Glucose
- C) Deoxyribose
- D) Fructose

5. Which base is found in RNA but not in DNA?

- A) Thymine
- B) Adenine
- C) Cytosine
- D) Uracil

6. The process of copying DNA into RNA is called:

- A) Translation
- B) Transcription
- C) Replication
- D) Mutation