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**Topic:** DNA Structure Quiz

**Summary:** Assess student's knowledge of the structure of DNA.

**Goals & Objectives:** Students will be able to identify and define the general structure of DNA.

**Time Length:** 15 minutes

**NGSS Standards:** *HS-LS3-1* Ask questions to clarify relationships about the role of DNA and chromosomes in coding the instructions for characteristic traits passed from parents to offspring.

**Materials:**

Quiz & pencil or pen

**Procedures:**

Students put away any notes, binders, and books on the floor.

**Accommodations:** Students with an IEP can have extra time taking the quiz.

**Editable DOCX File and Answer Key:**

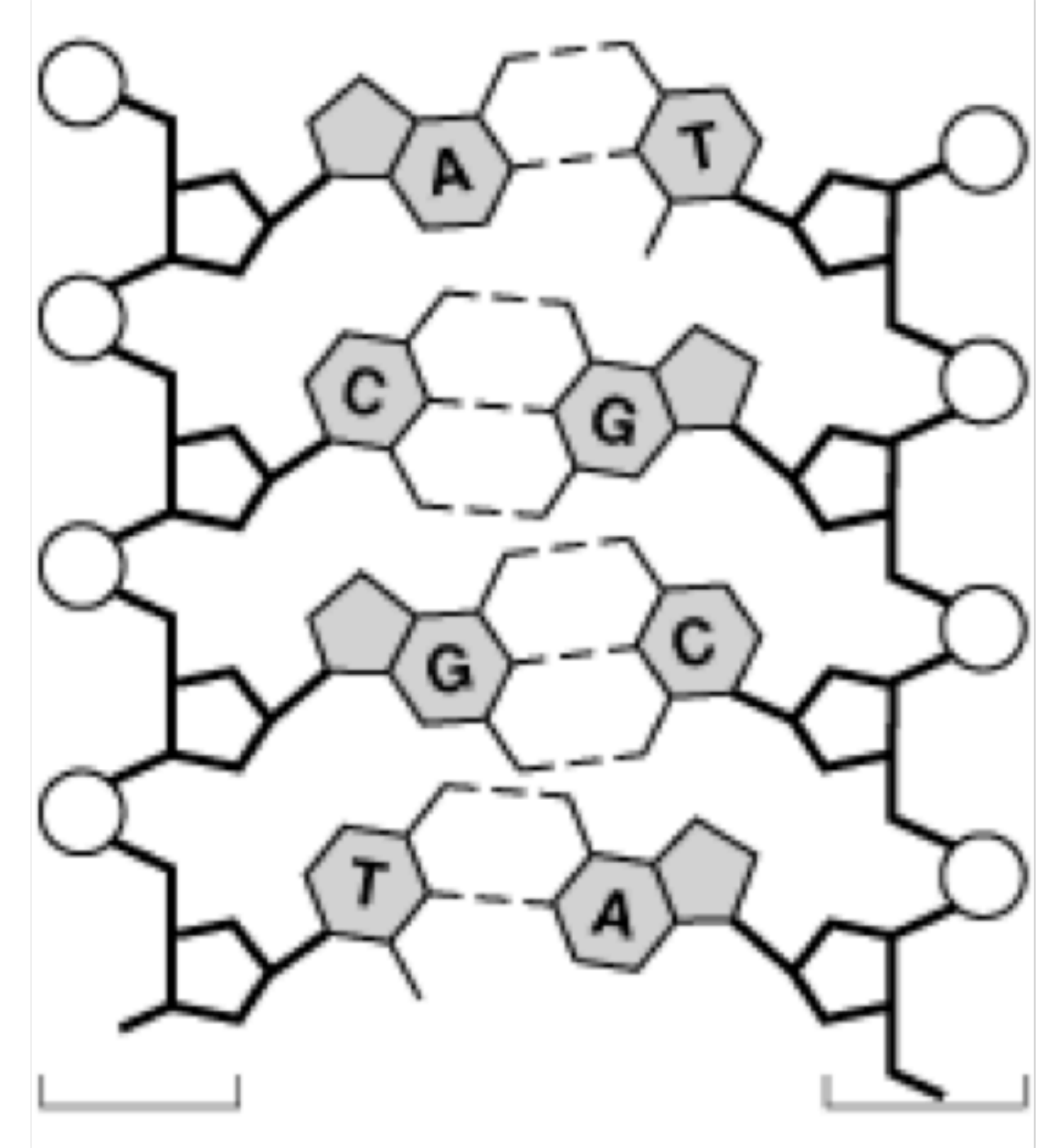
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# DNA Structure Quiz

(Use scientific terms only)

1. What does DNA stand for? \_\_\_\_\_
2. The four biomolecules are carbohydrates, lipids, proteins and \_\_\_\_\_
3. What is the monomer of DNA? \_\_\_\_\_
4. Draw lines linking the following terms to their location on the DNA diagram on the right.

- Phosphate
- Deoxyribose sugar
- Hydrogen bond
- Nitrogen base



5. Match the following Base Pairs:  
 Cytosine pairs with \_\_\_\_\_  
 Adenine pairs with \_\_\_\_\_
6. What is the shape of DNA? \_\_\_\_\_
7. What are the two main purposes of DNA?  
 a. \_\_\_\_\_  
 b. \_\_\_\_\_
8. What is the purpose of DNA replication? \_\_\_\_\_  
 \_\_\_\_\_
9. What part of a nucleotide contains the genetic code? \_\_\_\_\_
10. If a scientist found 120,000 Guanines in a DNA molecule, how many Cytosines should also be present? \_\_\_\_\_