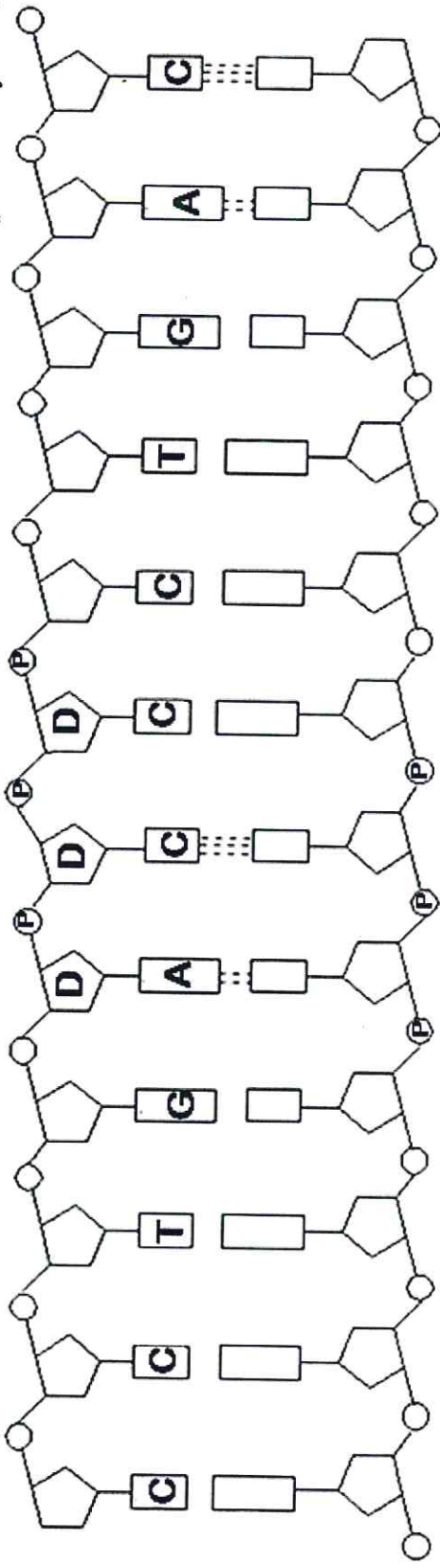


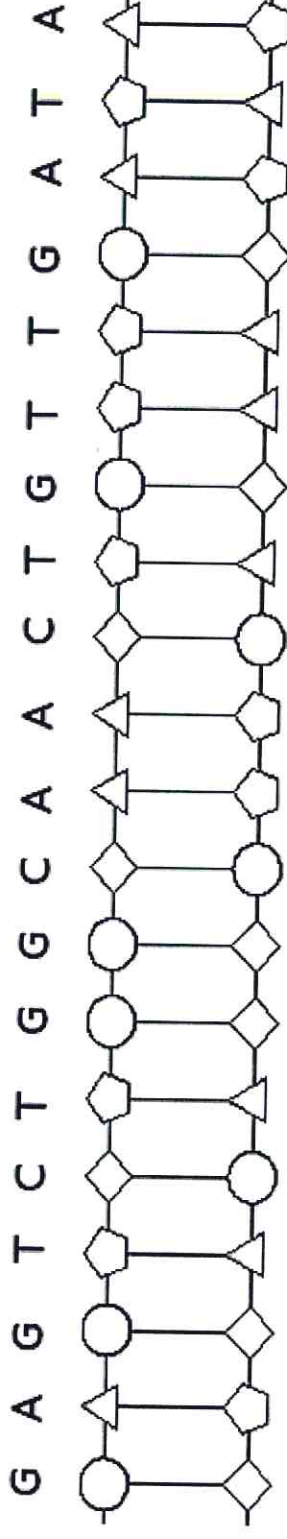
Name \_\_\_\_\_

Date \_\_\_\_\_

Instruction: The base sequence of the template strand of DNA is written below. Write the newly synthesized complementary strand.



1.



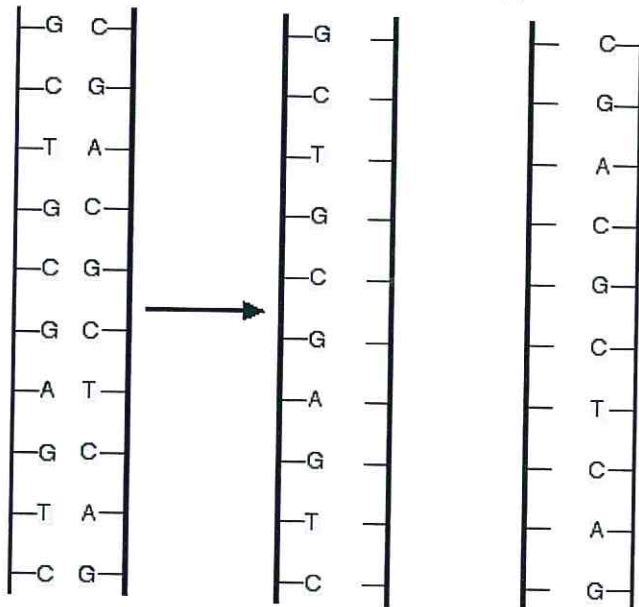
2.

3. C T A C G C T A G G C G A T T G A A C T  
 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓

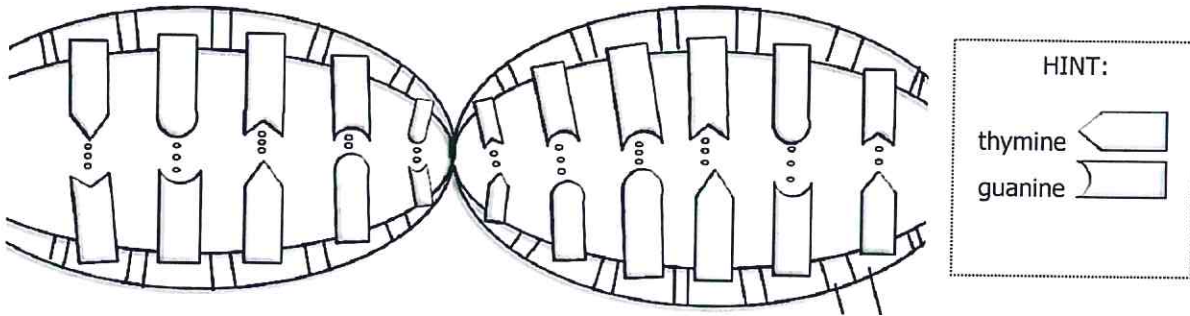
4. A A T T C G C G T A T T A G A C G T T  
 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓

## Warm-Up: DNA Strands

1. Write the complementary base pair on the opposite DNA strand:



2. Label the diagram below. Be sure to label the bases (T-G-A-C), the sugars (D) and the phosphates (P).



3. Look at the strand of DNA. If replication were occurring, determine the bases that will hook up to the exposed bases listed below. Write your answer below the letters.

**T A A C T T G C G G T A C C T A G G C T A G T**

4. Suppose one side of a piece of DNA contains the following series of nitrogen bases: A-C-G-C-T-T. What is the series of nitrogen bases on the other side of that piece of DNA? Explain how you arrived at your answer.