Name:_____Hour:_____

DNA STRUCUTRE WORKSHEET

1. **Write the four nitrogenous bases that occur in DNA? (DO NOT ABBREVIATE)**

   1._____ 2. _____ 3. _____ 4. _____

2. **The followign sequence of bases was found in a segment of DNA**

   A A G G C T T G C

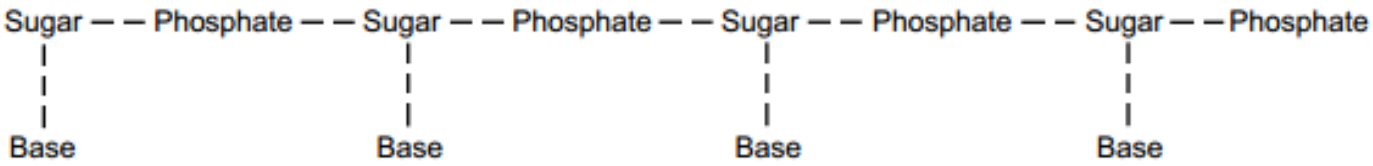
   Write the sequence of bases that would be found in the complementary strand. (Hint: Remember what bases pair with each other.

   _____

3. **What are the 3 basic parts of a nucleotide?**

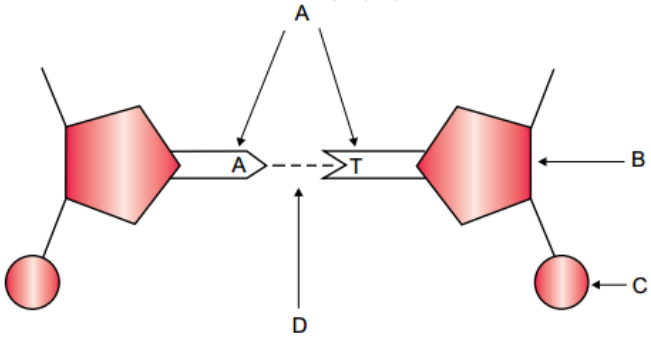
   1. _____ 2. _____ 3. _____

4. **Refering to the diagram below. Answer the following questions.**



   a. **Circle ONE nucleotide reprsented in the strand of DNA shown above.**
   b. **How many nucleotides are shown in the diagram above?** _____

5. **Use the figure below to label the structures A, B, C, and D.**



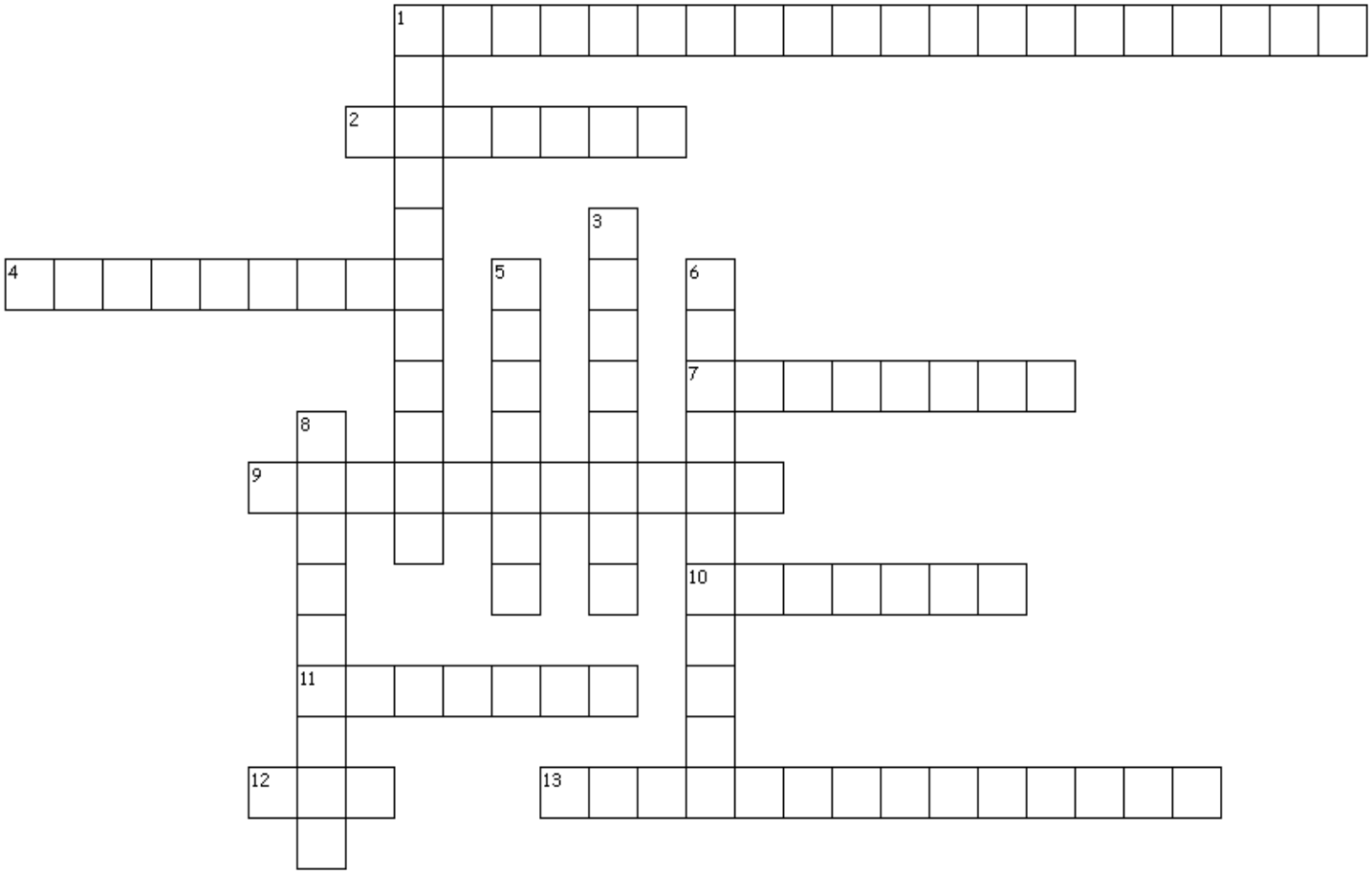
A_____ B_____

C_____ D_____

Reference: Crierie, A and Greg, D. (2008). *Worksheet 1: The Structure of DNA.* Retrieved from http://essentialseducation.com.au/wp-content/uploads/Biology-Workbook-sample.pdf

Name:_____Hour:_____

DNA STRUCTURE CROSSWORD



Across

1. The long name of DNA.
2. The name given to nitrogenous bases containing 2-ringed structures.
4. A Nucleotide is composed of a nitrogenous base, sugar, and _____.
7. This nitrogenous bases is abbreviated using the letter "C".
9. The name given to nitrogenous bases containing 1-ringed structures.
10. This nitrogenous bases is abbreviated using the letter "T".
11. This nitrogenous bases is abbreviated using the letter "G".
12. The driving force of life.
13. These two men won the noble peace prize for the discovery of DNA. (HINT:use last names only --> _____and_____).

Down

1. The overall shape of DNA that resembles a spiral staircase.
3. The overall function of DNA is to make_____.
5. This nitrogenous bases is abbreviated using the letter "A".
6. The overall structure of DNA is composed of many repeating _____.
8. A nitrogenous base is held together with it's complementary pair by what type of bond?