Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **Worksheet on DNA**

1. The letters “DNA” stand for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. DNA is composed of smaller subunits know as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. The three parts of a nucleotide are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. The four nitrogen bases that are found in DNA are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
5. Two of the nitrogen bases are single ring structures known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. These two bases are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
6. The other two bases are double ring structures known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. These two bases are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are the two scientists that discovered the structure of the DNA molecule.
8. DNA looks like a ladder twisted into a shape known as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
9. The two molecules that make up the sides of the ladder or the side portion of a DNA molecule are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
10. The molecules that meet across the middle, forming the steps of the “ladder’” are known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
11. Which nitrogen bases always pair with one another?
12. The nitrogen bases are held together in the center of the molecule by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
13. True or False? According to the principle of base pairing, hydrogen bonds could form only between adenine and cytosine.
14. The type of sugar found in DNA is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
15. If the sequence on the right hand side of the DNA molecule was TAGGCTCA, the complimentary side would have a sequence of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

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