

Name: \_\_\_\_\_

**Biology I: Unit 2 (A DNA Mastery Unit) – Worksheet 1: DNA Structure**

1. What do the letters DNA stand for?

\_\_\_\_\_

2. Two scientists are given credit for discovering the structure of DNA. What is the name of those two scientists.

a. \_\_\_\_\_

b. \_\_\_\_\_

3. DNA is a **polymer**, which means that it is made up of many repeating single units (**monomers**). What are the monomers called?

\_\_\_\_\_

4. The “backbone” of the DNA molecule is made up of two components, what are these?

c. \_\_\_\_\_

d. \_\_\_\_\_

5. There are four different variations of these monomers (four different bases), what are the names of those bases?

a. \_\_\_\_\_

b. \_\_\_\_\_

c. \_\_\_\_\_

d. \_\_\_\_\_

6. These bases are of two different types of molecules: purines and pyrimidines. Purines have \_\_\_\_\_ ring(s) in their structure, and pyrimidines have \_\_\_\_\_ ring(s) in their structure.

7. The two bases that are purines are:

a. \_\_\_\_\_

b. \_\_\_\_\_

8. The two bases that are pyrimidines are:

a. \_\_\_\_\_

b. \_\_\_\_\_

