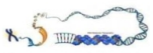
Answer the following questions on a separate piece of paper. **Write in full sentences so you may use this as a study guide later**.

Origami DNA Helix: DNA Structure



1. What do the letters in DNA stand for?

2. Two scientists are given credit for discovering the structure of DNA. What are the names of those two scientists? (a. & b.)

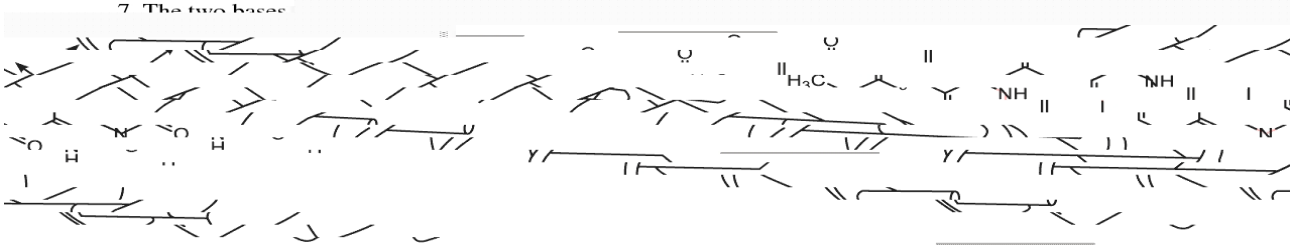
3. DNA is a polymer, which means that it is made up of many repeating single units (monomers). What are the monomers called?

4. The "backbone" of a DNA molecule is made up of two components. What are they? (a. & b.)

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



nd color molecule models with proper colors Fill in the blanks with the correct words from the word bank a

Word Bank

Adenine Guanine Deoxyribonucleic acid

Base pair Uracil helix of sugar-phosphates

RNA Thymine Nucleobases of RNA

paint one world

DNA Nucleobases Nucle

obases of DNA Cytosine Ribonucleic a

cid