Name Period Date

# **DNA: The Molecule of Heredity Worksheet**

# DNA Structure

On the diagram to the right:

Circle and label a nucleotide.

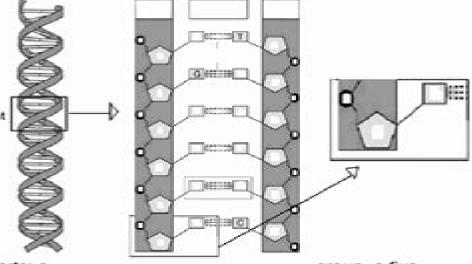
Label the <u>sugar</u> and <u>phosphate</u> molecules.

Label the bases (A, T, C & G) that are not already labeled.

Label a base pair.

Label the <u>sugar phosphate</u> backbones.

Label the hydrogen bonds.



- 2. A nucleotide is made of three parts: a \_\_\_\_\_\_ group, a five carbon \_\_\_\_\_, and a \_\_\_\_\_ base.
- In a single strand of DNA, the phosphate group binds to the \_\_\_\_\_\_

  of the next group.
- 4. Chargaff's rule states that the DNA of any species contains equal amounts of amounts of \_\_\_\_\_ & \_\_\_\_ and also equal amounts of \_\_\_\_\_ & \_\_\_\_ .
- In DNA, thymine is complementary to (or pairs with) \_\_\_\_\_;
  cytosine is complementary to \_\_\_\_\_;
- 6. In a strand of DNA, if the percentage of thymine is 30%, what would the percentage of cytosine in the same DNA strand be? \_\_\_\_\_.
- James Watson and Francis Crick with, the help of Rosalind Franklin and others, determined that the shape of the DNA molecule was a \_\_\_\_\_\_\_.
- What type of bonds connect the bases to each other? \_\_\_\_\_\_

# **The Molecule Of Heredity Worksheet**

**Yicheng Fang** 

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