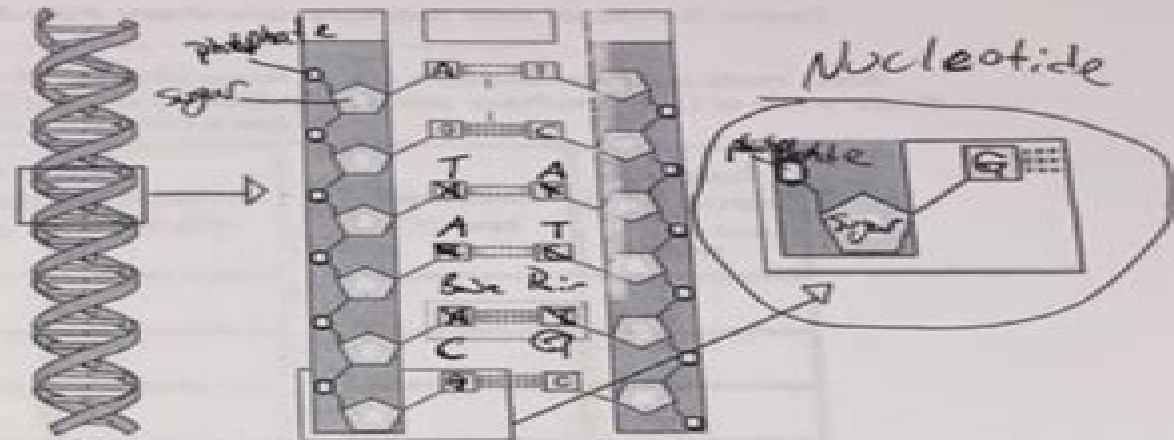


# DNA: The Molecule of Heredity

## DNA Structure (1 pt each)

1. On the diagram to the right:

- ✓ Circle and label a nucleotide.
- ✓ Label the sugar and phosphate molecules.
- ✓ Label the bases that are not already labeled.
- ✓ Label a base pair.
- Label the sugar-phosphate backbones.
- Label the hydrogen bonds.



(1 pt each blank)

2. A nucleotide is made of three parts: a \_\_\_\_\_ group, a five carbon \_\_\_\_\_, and a \_\_\_\_\_ base.
3. 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 \_\_\_\_\_ & \_\_\_\_\_ and also equal amounts of \_\_\_\_\_ & \_\_\_\_\_.
5. 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? \_\_\_\_\_.
7. James Watson and Francis Crick with, the help of Rosalind Franklin and others, determined that the shape of the DNA molecule was a \_\_\_\_\_.
8. Why do purines pair with pyrimidines? \_\_\_\_\_.
9. A \_\_\_\_\_ is a segment of DNA that determines all traits.
10. What type of bonds connect the bases to each other? \_\_\_\_\_.

# The Molecule Of Heredity Worksheet Answer Key

**Tobias Bleicker**



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