

The DNA Story Worksheet

For each of the following statements, circle True if you feel it is correct, or False if you believe it is incorrect. For each one that is false, write a correct statement in the space provided.

1. DNA is the basic unit of heredity in eukaryotes. True or False

2. Thymine is a nitrogen base found in DNA but not in RNA. True or False

3. DNA replication is conservative. True or False

4. Hershey and Chase determined that protein was responsible for carrying genetic information. True or False

5. Chargaff determined that adenine and cytosine were likely paired together, while thymine and guanine were paired together. True or False

6. A nucleotide consists of a five-carbon sugar, a nitrogen base, and a phosphate group. True or False

7. In DNA replication, the leading strand is replicated in short segments called Okazaki fragments. True or False

8. Each end of a double stranded DNA molecule contains a 5' end on one strand and a 3' end on the complementary strand. True or False

9. Watson and Crick were the only people responsible for determining the physical structure of DNA. True or False

10. A DNA sample that contains 34% adenine nucleotides will contain 16% cytosine nucleotides. True or False
