

NAME:

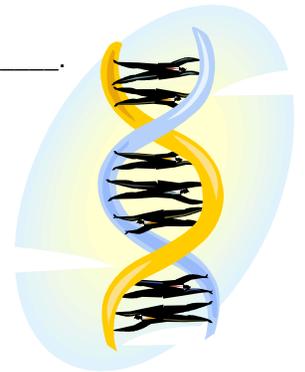
PERIOD:

DATE

## DNA Classwork

Answer the following questions to the best of your ability. Be specific. Be scientific.

1. The “rungs” of the DNA “ladder” are called \_\_\_\_\_.
2. The “handrails” of the DNA “ladder” are made of \_\_\_\_\_.
3. A piece of DNA with the code for one specific trait \_\_\_\_\_.
4. “G” guanine pairs up with \_\_\_\_\_.
5. The  $\frac{1}{2}$  ladder nucleic acid that carries the information on how to make proteins \_\_\_\_\_.
6. DNA stands for \_\_\_\_\_.
7. “Non-sense” code starts with \_\_\_\_\_.
8. A characteristic that a gene contains the information about \_\_\_\_\_.
9. In between each gene is \_\_\_\_\_.
10. Where is DNA found in a eukaryotic organism? \_\_\_\_\_.
11. What is the job/purpose/function of DNA?



12. What is the name of the shape of a DNA molecule? \_\_\_\_\_.
13. A mistake made while copying DNA that results in a permanent change \_\_\_\_\_.
14. “T” or thymine is replaced by this in “non-sense” code and RNA \_\_\_\_\_.
15. Briefly describe how a piece of DNA is copied.

16. The \_\_\_\_\_ of the nitrogen bases is the \_\_\_\_\_ that stores the \_\_\_\_\_ in DNA.

17. DNA...

- A. is a nucleic acid
- B. stores information
- C. is a large molecule
- D. can be found in cytoplasm
- E. contains a pattern
- F. can be used to make clones
- G. tells how to make the structures and do the functions of an organism
- H. is the abbreviation for deoxyribonucleic acid
- I. all but one of the previous answers are true
- J. none of these are true (other than J)
- K. all answers A-H and K are true, but not I, J, or L
- L. none of these are correct including this one