

NAME:

PERIOD:

DATE:

## DNA Multiple Choice Homework

Answer all questions to the best of your ability. Use your book or notes to help you.

### PUT YOUR ANSWER IN THE SPACE BY THE NUMBER.

1. \_\_\_\_\_ DNA is important to living things because...
  - a. it tells about things like your favorite color or rock band
  - b. it contains the code for an organisms structures and functions
  - c. neither a nor b is true
2. \_\_\_\_\_ The shape of the DNA model is called...
  - a. a triple lindy
  - b. a double helix
  - c. a single matrix
3. \_\_\_\_\_ In DNA...
  - a. cytosine (C) pairs with adenine (A)
  - b. guanine (G) pairs with urasil (U)
  - c. neither a nor b is true
4. \_\_\_\_\_ The special pattern of nitrogen bases in one specific gene...
  - a. tells how one trait will show up (ex. "big feet")
  - b. tells different information depending on what cell of the body it is in. (Ex. brain cells have different DNA in them than muscle cells)
5. \_\_\_\_\_ When an organism's DNA gets a mistake in it, that mistake...
  - a. is called a gene and usually causes something bad to happen
  - b. is called a mutation and usually causes something bad to happen
  - c. neither a nor b is true
6. \_\_\_\_\_ A single strand piece of nucleic acid that sends messages around inside cells is called...
  - a. RNA
  - b. endoplasmic reticulum (ER)
  - c. neither a nor b is true
7. \_\_\_\_\_ One piece of a strand of DNA that has the code in it for one characteristic is called a...
  - a. trait
  - b. gene
8. \_\_\_\_\_ A characteristic that an organism can have, such as "heart shaped leaves" or "sharp, pointy beak" is called a...
  - a. trait
  - b. gene
9. \_\_\_\_\_ Trees, fungi, and seaweed have DNA...
  - a. True
  - b. False
10. \_\_\_\_\_ DNA stands for... **(WRITE IN YOUR OWN CHOICES. THEN PICK THE RIGHT ONE)**
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_

