

# Knowing Your Genetics

Name \_\_\_\_\_ Per. \_\_\_\_\_

1. Each of the following structures is contained in or on one of the other structures. Starting with the largest, place them in correct order to complete the sentence.

GENES, DNA, CELL, CHROMOSOMES, NUCLEUS

The \_\_\_\_\_ contains a \_\_\_\_\_ which contains the \_\_\_\_\_ which are made from \_\_\_\_\_ which contain the \_\_\_\_\_.

2. \_\_\_\_\_ is the passing on of traits from parents to offspring and \_\_\_\_\_ is the study of that process.

3. Circle the characteristics that are NOT inherited, but are learned or acquired.

FUR ON A CAT

POLITICAL OPINION

EYE COLOR

MANNERS

COLOR OF A ROSE

FOOD PREFERENCE

4. The main purpose of genes is to carry \_\_\_\_\_ from parent to offspring.

5. Each gene in a pair of genes is called a/an \_\_\_\_\_.

6. In each body cell of an individual, there are \_\_\_\_\_ (number) of each gene, forming a pair. One gene is from the \_\_\_\_\_ and one is from the \_\_\_\_\_. If both genes are identical, the individual is \_\_\_\_\_ for that trait, but if each gene is different the individual is a \_\_\_\_\_.

7. Some genes only show up if the individual is pure for that trait. These genes are said to be \_\_\_\_\_ (dominant / recessive).

8. Changes in a gene or chromosome are called \_\_\_\_\_, which are usually harmful. But they can help the species because they add \_\_\_\_\_ to the gene pool.