Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**I CAN** explain how inherited traits are passed from generation to generation and how they are different than learned traits.

P. \_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_

**Bill Nye Video Questions: GENES** (DK0555 A)

1. The way you are comes from your \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. You get your \_\_\_\_\_\_\_\_\_\_\_\_ from your parents.

2. The pictures of “little compartments are called \_\_\_\_\_\_\_\_\_\_. Inside each cell there is

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

3. DNA is shaped like a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and made of

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_chemicals.

4. Thousands of genes are joined together to make \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

5. A specific piece of DNA is called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

6. Your genes provide the information to make your \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

7. Why is it not her fault that she has a big nose as Richie pointed out?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. Humans have \_\_\_\_\_\_\_\_ pairs of chromosomes.

9. Humans have about \_\_\_\_\_\_\_\_genes. NOTE: this is NOW estimated to be 20,000

10. Genes determine a lot of different things like \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

11. A sperm and egg have \_\_\_\_\_\_\_as many chromosomes as a normal body cell.

12. The DNA in every living thing is made of just \_\_\_\_\_ chemicals called

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. To print out the gene for Bill’s hair color, it would take \_\_\_\_\_\_\_ pages of paper.

14. Mules are a hybrid of what two animals? \_\_\_\_\_\_\_\_\_\_\_\_\_and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

15. Mutations caused the turtle to have \_\_\_\_\_\_\_\_\_\_\_\_heads.