

Name\_\_\_\_\_

Period\_\_\_\_\_

BILL NYE- GENES VIDEO QUIZ

1. The way you are and the way you look are controlled by your \_\_\_\_\_.
2. What are the bundles of chemicals in our body called? \_\_\_\_\_
3. \_\_\_\_\_ are very, very long DNA molecules found in almost every cell of every living thing.
4. Genes are like a \_\_\_\_\_ for making human beings.
5. Genes are a set of chemical \_\_\_\_\_ which get passed down from parents to child.
6. Humans have about \_\_\_\_\_ ( a number) genes are stored in chromosomes.
7. Most species have fewer than \_\_\_\_\_( a number) chromosomes but thousands and thousands of genes.
8. Almost every one of your cells have \_\_\_\_\_ ( a number ) chromosomes.
9. One cell divides into two cells and then keeps \_\_\_\_\_ to make a human baby.
10. The shape of your \_\_\_\_\_ is determined by your genes.
11. Human genes can combine in about \_\_\_\_\_ trillion different ways.

12. The 4 chemicals are arranged in a different combinations- the 4 bases are \_\_\_\_\_, cytosine, \_\_\_\_\_ and thymine.
13. The gene for \_\_\_\_\_ would actually take about 5 pages if we printed it out.
14. A \_\_\_\_\_ is a hybrid, it has \_\_\_\_\_ ( a number ) chromosomes and a donkey has 62 chromosomes, while a horse has 64 chromosomes.
15. A mule gets the best \_\_\_\_\_ from both its parents.
16. Light and dark bands in chromosomes are \_\_\_\_\_ of hundreds of genes.
17. If you get a capital R from your dad and a lowercase r from your mom, you CAN or CAN'T roll your tongue? Circle one
18. A \_\_\_\_\_ caused the turtle to have two heads. He would not survive in nature.

WORD BANK: Use each word once.

ADENINE	MULE	BUNDLES	MUTATION	70
GUANINE	TRAITS	GENES	PATTERN	DNA
80,000	EARLOBE	46	CHROMOSOMES	100
INSTRUCTIONS	DIVIDING	63		