**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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

**Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period \_\_\_**

**SPIDER GOAT VIDEO NOTES**

1. What is the line called that forms the frame of a spider web?\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

2. This unique strength comes from the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ when spun liquid to

 solid forms.

3. This line takes \_\_\_\_\_\_\_\_\_\_\_ percent more force than steel to snap.

4. The fight against chemical weapons that are natural toxin fighters are called

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

5. These are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_that search out and disable toxic molecules that

 enter the blood stream through food or air.

6. What was the name of the first goat-human hybrid?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ was the key to the holy grail of material science.

8. The fiber was \_\_\_\_\_\_\_\_\_\_\_\_\_stronger than steel.

9. What is dissected out of the spider?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. What is collected from the goat?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. How many months is the gestation period for a goat? \_\_\_\_\_\_\_\_\_

12. In the goat’s milk is found the normal protein and a new protein of \_\_\_\_\_\_\_\_\_\_\_\_\_

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

13. These genes work in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ glands of the goat.

14. How many miles of silk filament are shown in the test tube of the spin dope

 protein? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the line called that forms the frame of a spider web? **drag line**

This unique strength comes from the **crystal form of molecule** when spun liquid to solid forms.

This line takes **40** percent more force than steel to snap.

The fight against chemical weapons that are natural toxin fighters are called

**bioscavengers**.

These are **proteins** that search out and disable toxic molecules that enter the blood stream through food or air.

What was the name of the first goat-human hybrid? **Willow**

**Goat milk** was the key to the holy grail of material science.

The fiber was **5 times** stronger than steel.

What is dissected out of the spider? **silk glands**

What is collected from the goat? **egg**

How many months is the gestation period for a goat? **5 months**

In the goat’s milk is found the normal protein and a new protein of **spider silk**.

These genes work in the **mammary** glands of the goat.

How many miles of silk filament in shown in the test tube of the spin dope protein? **10-20 miles**