



A colossal CONSERVATION EXPERIENCE

Name: _____

Name three **FACTS** about Darya:

- 1.) _____ +
- 2.) _____
- 3.) _____ +

TRUE or FALSE?

- | | |
|---|--|
| _____ There are three types of wolves living today. | _____ Wolves cannot move quickly. |
| _____ Wolves like to hunt people. | _____ Wolves are apex predators. |
| _____ Wolves live and hunt in groups. | _____ Dogs are direct descendants of wolves. |
| _____ Wolves are born deaf and blind. | _____ Wolves and dogs share less than 5% of the same DNA |

WORD BANK

equal swirling strands keystone genetic diversity toothpick
dish salt biodiversity rubbing alcohol apex DNA species traits soap

Fill in the **BLANKS** with the correct word from the **Word Bank**:

- 1.) The incredible variety of life on Earth is called _____.
- 2.) Scientists have identified 2 million _____ of living things.
- 3.) Genetic diversity is the range of inherited _____ within a species.
- 4.) Healthy species have high _____.
- 5.) An _____ predator is at the top of the food chain and has no natural predators.
- 6.) _____ is a molecule that carries a genetic code (or makeup) unique to every individual living thing.
- 7.) A _____ species is essential to the health of its entire ecosystem.

What were the **STEPS** Darya took to extract the DNA from her dog's drool?

- Step 1.) How did she collect the drool sample? _____.
- Step 2.) After she collected the sample, she put the drool in a clear _____.
- Step 3.) She then added an _____ amount of dish _____ to the drool to break apart the cells.
- Step 4.) Next, she added a pinch of _____ to help the DNA molecules clump together.
- Step 5.) She mixed the solution by _____ it and then let it sit for a minute.
- Step 6.) Then she carefully poured a thin layer of _____ into the dish to separate the DNA.
- Step 7.) She looked for the white, stringy _____ of DNA to form.
- Step 8.) Finally, she used a _____ to lift the sticky strands of DNA.

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