**Name Date Science 1 2 3 4 5**

**Lab Report: The Natural Selection of Forks and Beans**

**Problem**

Which type of “prey” is the most well adapted to its environment – speckled, red, or white beans?

Which type of “predator” is the most well adapted for feeding – forks, spoons, or knives?

**Hypotheses** (2 POINTS EACH)

I think that \_\_\_\_ (prey species) will be most likely to survive because…

I think that \_\_\_\_ (prey species) will be least likely to survive because…

I think that \_\_\_\_ (predator species) will be most likely to survive because…

I think that \_\_\_\_ (predator species) will be least likely to survive because…

**Procedure**

Even amounts of the beans and peas will be spread out in an area to represent prey.

The class will be predators – each person will have either a fork, spoon, or knife to hunt.

You will have 2 minutes to “hunt” for as much food as possible. You can only use your utensil to pick

up food with – YOU CANNOT USE YOUR HANDS.

Pieces of food should be picked up ONE AT A TIME, and must be placed in your cup “stomach”.

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|  | **Forks** | **Spoons** | **Knives** | **Totals** |
| **Red** |  |  |  |  |
| **White** |  |  |  |  |
| **Speckled** |  |  |  |  |
| **Totals** |  |  |  |  |

**Data**

Create 2 bar graphs:

* One to show the number of different colors of prey that were “eaten” (5 POINTS)
* One to show the amount of prey that each type of predator caught (5 POINTS)

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**Key Terms**

* **Predator** – an animal that hunts and eats another animal
* **Prey** – an animal that is hunted by another animal
* **Adaptation** – a trait that allows an animal to survive better in its environment
* **Natural Selection** – the idea that an organism best suited to its environment will survive and reproduce, and pass its traits on to its offspring.

**Conclusion** (please use the space on the other side to write your conclusion)

Needs to be AT LEAST 1 paragraph long (4-6 complete sentences). 5 POINTS

Looking back at your problem, hypotheses, and data, explain what occurred in the experiment. Which predator and prey species were the best and why? Which were the worst and why?

How does this activity show the principles of natural selection?

**Conclusion Paragraph**