

*Fork 'n Beans Natural Selection Lab*

Name _____
Date _____ Period ____

**Table 1 - Number of prey captured**

Generation 1 in hallway carpet environment

Start with	White 100	Black 100	Red 100	Spotted 100	Percent captured
Forceps					
Hand					
Spoon					
Fork					
Knife					
Total Kills					N/A
Survivors					
% Survivors					

**Table 2 - Number of prey captured**

Start with	White _____	Black _____	Red _____	Spotted _____	Percent captured
Forceps					
Hand					
Spoon					
Fork					
Knife					
Total Kills					N/A
Survivors					
% Survivors					

**Table 3 - Number of prey captured**

Start with	White _____	Black _____	Red _____	Spotted _____	Percent captured
Forceps					
Hand					
Spoon					
Fork					
Knife					
Total Kills					N/A
Survivors					
% Survivors					

## Fork & Beans: Summary Questions

1. Which **beans** had the best adaptations to survive in this environment?
2. Which **beans** had the worst adaptations to survive in this environment?
3. Why did some beans have a better survival rate than the others?
4. How do you think the survival rates of the beans would change if the environment were to become more like the pavement outside? EXPLAIN!
5. Which predator (forceps, hand, spoon, fork, or knife) had the best adaptations to survive in the hallway environment?
6. What makes this predator more successful at killing its prey?
7. Suggest one mutation or adaptation that could be made to the most successful predator so that it is less successful.
8. Which predator (forceps, hand, spoon, fork, or knife) had the worst adaptations to survive in this environment?
9. What is one adaptation or mutation that would allow the least successful predator to become more successful?
10. How does this activity demonstrate the theory of evolution by natural selection? How good of a model for evolution do you think this activity is?