

Survivor: Who Will Be The Best Competitor?

Data collection:

Scenario 1

How many did all members of your species collect?	Food Item		
	Red	Yellow	Green
Number Collected (you)			

Notes (include any observations, experiences or calculations here):

Totals	Food Item		
	Red	Yellow	Green
Number Collected			

Total number of individuals of your species = _____

Data collection:

Scenario 2

How many did all members of your species collect?	Food Item		
	Red	Yellow	Green
Number Collected (you)			

Notes (include any observations, experiences or calculations here):

Totals	Food Item		
	Red	Yellow	Green
Number Collected			

Total number of individuals of your species = _____

Scenario 1

*Graph the total number of food items collected of each color for all members of **your** species.*



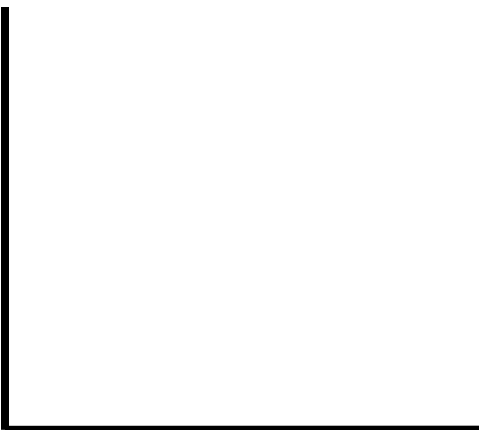
Scenario 1

*Graph the total number of food items collected of each color for all members of **the other** species.*



Scenario 2

*Graph the total number of food items collected of each color for all members of **your** species.*



Scenario 2

*Graph the total number of food items collected of each color for all members of **the other** species.*



How do your results differ between Scenario 1 and Scenario 2? Why do you think you see this difference?

How do results differ between species? Why do you think you see this difference?

Brainstorming:

In your group, develop new ideas to test. How might you change the prey, predators or the environment?

Testing the New Scenario:

Record the class' pick for the new scenario.

Methods: How will you set up the game to model this scenario (give exact numbers, locations, colors, etc.)?

Prediction: What do you think the results for the "red" species and the "blue" species will look like? (Describe in sentences, make a table or draw a graph.)

Will these results differ from those in Scenario 1 and/or Scenario 2? Why or why not?

Data collection:

Scenario 3 (Class Generated)

How many did all members of your species collect?	Food Item		
	Red	Yellow	Green
Number Collected (you)			

Notes (include any observations, experiences or calculations here):

Totals	Food Item		
	Red	Yellow	Green
Number Collected			

Total number of individuals of your species = ____

Scenario 3

*Graph the total number of food items collected of each color for all members of **your** species.*



Scenario 3

*Graph the total number of food items collected of each color for all members of **the other** species.*



Do these results match your predictions for Scenario 3? Why or why not?

How do results of Scenario 3 compare to those of Scenario 1 and Scenario 2? Are they different or similar? Explain.

How does Scenario 3 affect competition between the species?

What other thoughts do you have about Scenario 3? (You might address some or all of these questions: Did you forage for prey differently? Did other predators change their behavior? Do you think you have learned how to forage better over time? Do you have new questions or ideas now that you have finished Scenario 3?)