

Natural Selection in *Poecillia reticulata* (Guppies)

Name: _____

1. Go to the website:

<http://www.mhhe.com/biosci/genbio/raven6/lab6/labs/lab6/home.html>

2. Choose “Read the Original Research”, and read the background information provided on the experiment you’re going to perform.

3. Choose “Run a Virtual Experiment Exploring the Original Paper”.

4. Proceed through the lab instructions and answer the following analysis questions.

Greenhouse (laboratory) Experiment

1. What would you expect to see if you were to continue the experiment for 6 more months?

2. If the guppies become less conspicuous (blend with their surroundings) under pressure from predators, what would you expect to happen if you were to use gravel that is very colorful (bright blue, red, and yellow)?

Field Experiment

3. How well would the guppies from the high predation pool compete for mates if they were transferred over to the low predation pool? Explain.

4. What do you think would happen to the guppies from the low predation pool if you transferred them to the high predation pool? Explain.