


Name: _____

Natural Selection PhET Simulation

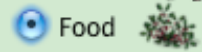
- 1) Play with the simulation for five minutes. Be prepared to share what you have found!
- 2) Fill in the table below with your observations.

How can you...	What did you change?	How many generations did it take?
...make more white bunnies?		
...make 20 brown bunnies?		


- 3) **Challenge 1:** Find a way to make the bunnies take over with brown fur! Fill in the table with your selections.

Mutation	Environment	Selection Factor	Observations
			

- 4) **Challenge 2:** Find a way to make 200 bunnies when food is a selection factor! Fill in the table with your selections.

Mutation	Environment	Selection Factor	Observations
			

5) **Challenge 3:** Find a way for the bunnies to take over when the environment is the artic! Fill in the table with your selections.

Mutation	Environment	Selection Factor	Observations
			

6) On your own: Simulations are useful for understanding how natural processes work but are not always representative of the real world. How does this simulation differ from what might happen in a true ecosystem?

7) On your own: What changes would you make the simulation to make it a better representation of a true ecosystem?

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Vocabulary Words

Word	Definition	Examples from simulation
Trait		
Adaptation		
Mutation		
Limiting Factor		
Biotic		
Abiotic		
Natural Selection		