

Name: _____

BUNNY BLITZ

Open the simulation at <http://bit.ly/2Z6SU1N>. Select the “Lab” option.

Take a few minutes to explore the simulation. Learn what the different controls do. The button can be used to reset the simulation to its original settings.

Mission 1

Change the conditions so that you end up with a population of entirely brown rabbits.

1. Once you have accomplished this mission, write directions explaining how to do it.
2. What advantage did rabbits with brown fur have over the white rabbits?

Mission 2

Change the conditions so that you end up with a population of entirely brown rabbits with long teeth.

3. Once you have accomplished this mission, write directions explaining how to do it.
4. What advantage did the rabbits with long teeth have over the rabbits with normal teeth?

Mission 3

Change the conditions so that you end up with a population of entirely floppy-eared rabbits.

5. Once you have accomplished this mission, write directions explaining how to do it.
6. What advantage did the rabbits with floppy ears have over the rabbits with floppy ears?

Discussion Questions

7. What examples of variation were present in the simulation? What was the cause of this variation?
8. What examples of inheritance were present in the simulation?
9. What examples of unequal survival/reproductive success were present in the simulation?
10. What examples of adaptation were present in the simulation?
11. Are all mutations beneficial? Provide evidence from the simulation to support your answer.