



Evolution Portfolio 1.9

Snurfle Islands

Click here for [Video Directions for the Snurfle Lab](#).

Click on the link to [Interactive Lab](#). This document can be completed by hand or via [eCopy](#).

Create a Snurfle with awesome adaptations and test his survival in several challenging island environments! Choose from wings, fire breath, extreme jumps, and more! Have fun while learning about natural selection and evolution!

Part 1: Background Information

Evolution is genetic change in _____ over time. _____ is one of the mechanisms by which evolution occurs.

Principles of Natural Selection:

1. In nature, _____ offspring are produced than can survive.
2. Organisms are (alike or genetically different).
3. _____ are helpful genetic traits.
4. Can organisms acquire adaptations during their lifetime? (yes or no)
5. List two things that are limited in the environment and would therefore affect survival:
_____ and _____
6. Who is more likely to survive and reproduce? Those with the best _____ for their _____.
7. The more genes that an organisms passes on, the more _____ it has.
8. _____ that are more beneficial become (more or less) common in a population over time.

Part 2: Play the Game and Create 2 Snurfles

Click on all of the adaptations before selecting those you want your Snurfle to have.

You have the options to visit the following islands/habitats: Diverse island, Desert Island, Lava Island, Frosty Island, Aqua Island, Aerial Island, Predator Island, Fruity Paradise.

You have to create at least 2 Snurfles.

	Adaptations	Island / Ecosystem	Did your Snurfle survive? Why or why not?
Snurfle 1			
Snurfle 2			

Part 3: Conclusion

Terms: matching

- | | |
|---------------------|-------------------------------------|
| _____ 1. Variation | A. differences among individuals |
| _____ 2. Adaptation | B. ability to survive and reproduce |
| _____ 3. Evolution | C. genetically inherited variation |
| _____ 4. Fitness | D. genetic change in a population |

5. Do individuals evolve? Why or why not? **(2-3 complete sentences)**

6. How do resistant insect populations evolve? **(2-3 complete sentences)**

IMPORTANT: Download as PDF and submit in 1.9 Dropbox.