Snurfle Island - <https://www.biomanbio.com/HTML5GamesandLabs/EvoClassGames/snurfleislandshtml5page.html>

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!

Background:

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.

Play the Game:

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.

Snurfle #1 –

 Adaptations:

 Island/Ecosystem:

 Did it survive? Why or why not?

Snurfle #2 –

 Adaptations:

 Island/Ecosystem:

 Did it survive? Why or why not?

Quiz:

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? \_\_\_\_\_\_\_\_\_

6. How do resistant insect populations evolve?