Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_

**Evolution WebQuest**

**Part A:** Go to <http://science.discovery.com/interactives/literacy/darwin/darwin.html>. Click on “Learn about Natural Selection.” Answer the questions below as you are able to.

1. What was Charles Darwin’s theory on the driving force of evolution called? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What are the parts of Darwin’s ideas? List them below:
3. What does “survival of the fittest” mean?

**Part B:** Answer questions 4-7 below as you set up “Darwin’s Evolution Game” in the beginning. DO NOT go through the game without answering the questions below in the beginning!!!!!!!!

1. How would you describe your starting environment? What kinds of landforms are present?
2. What kind of vegetation is there?
3. Anything else that is noteworthy?
4. Draw your 3 starting variants of your species and describe why you chose the ones that you did in the table below. What advantages did you think they might have over some of the other options?

|  |  |
| --- | --- |
| **Picture of variant** | **Reason for choice** |
| **1.** |  |
| **2.** |  |
| **3.** |  |

 **Trial #1**

How long did your species survive on your first attempt? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. Repeat the above **until you make it to 1,000,000 years**!! What was different between the variants you chose the first time, and the ending population after a successful attempt?

9. Once your species has succeeded, take the quiz on the site and write in the letter to the correct responses below:

1. \_\_\_\_\_\_2. \_\_\_\_\_ 3.\_\_\_\_\_ 4.\_\_\_\_\_ 5.\_\_\_\_ 6.\_\_\_\_\_ 7.\_\_\_\_\_ 8.\_\_\_\_\_9.\_\_\_\_\_ 10.\_\_\_\_\_\_

11. What was the name of the guy pictured on the right page?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part C**: Click here: [www.youtube.com/watch?v=ewtw\_nZUIDQ](http://www.youtube.com/watch?v=ewtw_nZUIDQ) and watch the video clip “How do we know evolution happens?” Write a 5 sentence paragraph summary for the video clip.

**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Part D:** Investigate a variety of types of evidence for evolution. You are responsible for learning about:

\*\*\*Fossil evidence (based on paleontology, or the study of prehistoric life)

\*\*\*Anatomical evidence (in regards to structure and anatomy)

\*\*\*Molecular evidence (based on comparing DNA and protein molecules)

1. Look for websites in regards to your chosen specialty and find two **specific** examples of evidence for evolution for each category. Make sure you use credible Web sites.
2. Complete the chart below as you gather information.

|  |  |  |
| --- | --- | --- |
| **Special areas of interest** | **Evidence (drawings or descriptions)** | **Why is this information significant?** |
| **Anatomical** | 1.2. |  |
| **Molecular**  | 1.2. |  |
| **Fossil**  | 1.2. |  |