Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Natural Selection Practice**

Bob believes that giraffes have long necks because they have stretched their necks to try and reach food that is high in trees. Since the parent had stretched its neck, it passed the long neck on to its offspring.

Ryan believes that giraffes have long necks because the ones with long necks were able to reach the food, and those with short necks could not and died. The long necked giraffes reproduced and soon all of the giraffes had long necks.

1. Who thinks like Darwin?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Who things like Lamarck?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

In ostriches there are two types: ones that can run fast and those that run slowly. The fast birds can reach up to 40 miles per hour. Jackals love to eat ostrich and they can reach speeds of up to 35-40 miles per hour.

1. What ostrich will natural selection select against? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Use Darwin’s five points to explain the scenario above.

|  |  |
| --- | --- |
| **5 points of natural selection** | **Explanation** |
| Variation |  |
|  |  |
| Competition |  |
|  |  |
|  |  |

Identify the following as **stabilizing, directional or disruptive.**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Natural selection that selects for the two extremes
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Natural selection that selects for the average phenotype
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Natural selection that selects for one extreme.