**NAME : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
Block : \_\_\_\_\_\_\_\_\_\_**

**Who Wants To Live A Million Years ? ?**

* **Go to the following website :**
* [**https://scienceisrealeducation.com/natural-selection-game/**](https://scienceisrealeducation.com/natural-selection-game/)
* **Then scroll down to see where it says "Click below to play on Desktop"-**

**then click on the big PLAY ARROW icon**

* **Read the intro and select – "Learn about Natural Selection" link**
1. **What two characteristics show variation on the four birds that are shown?**
2. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ B) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Then click on "NEXT PART" 🡪**

1. **After you have crossed the parents, what colour of feathers showed dominance when the two birds reproduced?**

**Circle below:**

* + **GRAY or BLACK**

**Then click on " Go to NEXT PART" 🡪**

1. **When it comes to the animal kingdom, what two advantages come from having "Beneficial Traits"?**
2. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
3. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Click on "PLAY THE SURVIVAL GAME": 🡪**

1. **What is the more scientific name for Darwin's "Survival of the Fittest" Theory?**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**PROCEED 🡪**

**Click on "HINTS"**

1. **For each PHENOTYPE (physical trait) list one PRO (benefit) and one CON (disadvantage)**
2. **BULKY: - PRO : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
	* + **CON : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
3. **LONG NECK: - PRO : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
	* + **CON : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
4. **SHORT LEGS: PRO : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
	* + **CON : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
5. **LONG LEGS : PRO : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 CON : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**PROCEED 🡪**

1. **Describe leg length, colour, neck length and body shape for each of your 3 Variants that you picked for your first Starter Population?**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **VARIANT #** | **Neck Length****(short or long)** | **Leg Length****(short or long)** | **Colour** | **Stripes** **(present or absent)**  |
| **1** |  |  |  |  |
| **2** |  |  |  |  |
| **3** |  |  |  |  |

 **Run to PROCEED 🡪**

1. **You have two "Life Preservers" that will create more variation later. What name is given to this factor that can create new variation in your population?**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* **Remember to use these life preservers whenever you notice that the members of your population are starting to look too similar to one another.**

**START THE GAME 🡪**

1. **Put a check mark below on the line for each time that you have to create a new "Starter Population"**

**\_\_\_**$√$**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **\*\*\*\* CALL ME OVER TO CHECK YOUR SCREEN WHEN YOU HAVE SURVIVED ONE MILLION YEARS \*\*\*\*\***