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

Choose your traits!

**Procedure:** It’s time to create an organism and see what happens as it tries to survive in its environment.

Round 1: Circle a trait from each of the sections below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Trait: Fur**Options (circle one):Very furryNo fur | **Trait: Height**Options (circle one):TallShort | **Trait: Body Fat**Options (circle one):Thick blubber layer Low body fat | **Trait: Claws**Options (circle one):Long, sharp clawsNo claws | **Trait: Color**Options (circle one):Light coloredDark colored |

Draw a picture of what your organism looks like:

|  |
| --- |
|  |

Round 2: If you didn’t survive Round 1, your teacher will now tell you what traits to circle below. You now represent the offspring of those who survived Round 1. If you did survive, choose the exact same traits you had in Round 1.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Trait: Fur**Options (circle one):Very furryNo fur | **Trait: Height**Options (circle one):TallShort | **Trait: Body Fat**Options (circle one):Thick blubber layer Low body fat | **Trait: Claws**Options (circle one):Long, sharp clawsNo claws | **Trait: Color**Options (circle one):Light coloredDark colored |

Round 3: If you didn’t survive Round 2, your teacher will now tell you what traits to circle below. You now represent the offspring of those who survived Round 2. If you did survive, choose the same traits you had in Round 2.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Trait: Fur**Options (circle one):Very furryNo fur | **Trait: Height**Options (circle one):TallShort | **Trait: Body Fat**Options (circle one):Thick blubber layer Low body fat | **Trait: Claws**Options (circle one):Long, sharp clawsNo claws | **Trait: Color**Options (circle one):Light coloredDark colored |

Final Organism: Circle the final traits you ended up with after another round of reproduction.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Trait: Fur**Options (circle one):Very furryNo fur | **Trait: Height**Options (circle one):TallShort | **Trait: Body Fat**Options (circle one):Thick blubber layer Low body fat | **Trait: Claws**Options (circle one):Long, sharp clawsNo claws | **Trait: Color**Options (circle one):Light coloredDark colored |

Draw a picture of what your final organism looks like:

|  |
| --- |
|  |

**Analysis**

1. Did you survive the first round? What was the trait that caused you to be eliminated?

1. Compare the traits your organism had during the first round compared to the traits your final organism had. What changed?

1. Compare your first and last organisms to another student’s first and last organisms. Which ones look the most different? The most similar?

1. Did any of the individual organisms change their traits? How did the traits spread through the population?

**Conclusion:** What did this model show us about traits and adaptations about individuals vs entire populations?