Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Animal and Plant Adaptations** Use the Internet to help you learn about the organisms in the table below and identify their adaptations and how they help them survive.

|  |  |  |  |
| --- | --- | --- | --- |
| **Animal or Plant** | **Adaptations** | **How does it help them survive?** | |
| *Example: Giraffe* | *Long neck* | *Helps them get food from high up* | |
| Snow Leopard |  |  | |
| Camel |  |  | |
| Whale |  |  | |
| Polar Bear |  |  | |
| Cactus |  |  | |
| Cheetah |  |  | |
| Flamingo |  |  | |
| Hawk |  |  | |
| Wolf Spider |  |  | |
| Aspen Tree |  |  | |
| Komodo Dragon |  |  | |
| Turtle |  |  | |
| Horned Lizard |  |  | |
| Tuna |  |  | |
| Coral |  |  |
| Tulip |  |  |
| Your Favorite Animal or Plant |  |  |

Now, go to http://www.sciencechannel.com/games-and-interactives/charles-darwin-game/ and play “Who Wants to Live a Million Years?”

Click the box that says “Learn about Natural Selection” and write out each step listed in the presentation.

1. Part 1:
2. Part 2:
3. Part 3:

Now, play the survival game! Record your attempts in the table below.

|  |  |  |  |
| --- | --- | --- | --- |
| **Attempt** | **3 Variations in Starter Population** | **Mutations** | **Years Survived** |
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**Questions:**

1. What did you have to do to survive a million years in the game?
2. Why do you think the “life preservers” in the game were called “mutations”?
3. List some examples of things that killed your population in the game.
4. Can individual organisms adapt genetically or evolve?
5. Is adaptation and natural selection always driven by a predator?
6. What are the two things species populations need to cause adaptation?