

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

Hour: \_\_\_\_\_

# Who wants to live a million years?

Go to [pilarz.weebly.com](http://pilarz.weebly.com) and visit the Unit 8 - Natural Selection page. Here you will find a picture link to the games.

1. Click on "Learn About Natural Selection" first. Read through the information and answer the following questions.

Part I –

1. Every species exhibits \_\_\_\_\_.
2. List at least two variations between the finches pictured.
3. What causes the finches to have these different traits?

Part II –

1. Many \_\_\_\_\_ are passed from parents to their \_\_\_\_\_.
2. Offspring get (all or some) traits from each parent.

Part III –

1. Organisms with the most beneficial traits will prosper. This is known as \_\_\_\_\_.
2. Organisms that survive will only pass on their beneficial traits if they do what?

Darwin's Bio:

1. The boat that Darwin sailed on when he visited the Galapagos Islands was called: \_\_\_\_\_
2. Where was Charles Darwin born?
3. What was the name of the book that Charles Darwin wrote?

2. Now you are going to play the game. Flip this paper over and follow the directions/answer the questions, when you are done return to this side and record your quiz answers.

3. Now take the quiz and record your answers below.

Quiz:

- |          |          |          |          |           |
|----------|----------|----------|----------|-----------|
| 1. _____ | 2. _____ | 3. _____ | 4. _____ | 5. _____  |
| 6. _____ | 7. _____ | 8. _____ | 9. _____ | 10. _____ |

Final score \_\_\_\_\_/10

**When you are finished with both sides turn it in.**

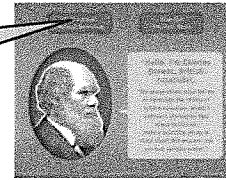
# Who Wants to Live a Million Years? (The Survival Game)

Name \_\_\_\_\_









Can you help your species survive in a changing – and sometimes cruel – environment? Try this game and find out!

1. Go here →→→ <http://science.discovery.com/interactives/literacy/darwin/darwin.html>

2. Click on **“Learn About Natural Selection”** and then read along and click, until you get to the button for **“Play the Survival Game”**.



3. Click on **“Play the Survival Game”**. **IMPORTANT!!!**  
Before you choose your Starter Population, click on **Hints** (lower right corner) to learn the advantages (pros) and disadvantages (cons) for each trait.

	<b>Thin</b> PROS: Stays cool CONS: Cold weather		<b>Long neck</b> PROS: Reach food easier CONS: Cold weather
	<b>Bulky</b> PROS: Stays warm CONS: Overheats		<b>Short legs</b> PROS: Less likely to freeze CONS: Not very fast
	<b>Furry</b> PROS: Resistant to cold CONS: May overheat		<b>Long legs</b> PROS: Agile CONS: Weakness to cold
	<b>Hairless</b> PROS: Cooler in heat CONS: Weakness to cold		<b>Stripes</b> PROS: Hide from predators CONS: Can't wear plaid

4. Follow the directions. **Can your species survive for a million years?** (You can try again with different traits – or use **mutations** as life preservers to increase your chances of survival .)
5. When you have successfully survived for a million years, answer the questions below...

**Question A:** The term for differences in traits within a certain species is \_\_\_\_\_.

- a) The same traits    b) Variations    c) Colors    d) None of the above

**Question B:** What is a process that can cause changes in a species over time?

- a) Mitosis    b) Mutation    c) Disease    d) All of the above

**Question C:** Which trait could be passed from parent to offspring, but might not be beneficial to species survival?

- a) Eye color    b) Long legs    c) Large Size    d) Heightened Senses

**Question D:** Give one *advantage* and one *disadvantage* for each **variation** in the chart below...

Variation	Advantage	Disadvantage
<i>hairless</i>		
<i>furry</i>		
<i>long legs</i>		

**Question E:** If the climate gets colder for thousands of years, **what changes might you see** in a species, based on the information above?