

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?

Quiz:

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

Now it’s time to **Play the Survival Game:**

It’s important to read the comments and suggestions from “Mr. Darwin”.

The species has a wide variety of traits. Click on the “hint” button on the lower right hand side of the screen to find out about these traits as well as their pro’s and con’s.

Trait	Pro’s	Con’s
Thin		
Bulky		
Furry		
Hairless		
Long neck		
Short legs		
Long legs		
stripes		

Your goal is to try to get your species to survive for 1 million years through environmental pressures such as temperature changes, predators, and diseases. As you play the game, keep track of what traits you started with as well as what “pressures” you encounter. You will have two

To begin, you will choose three organisms. You can access more “mutations” (variations due to chance changes in the genes). What does Charles say about diversity?

You will have two “life preservers”/mutations to introduce new traits into your population. Read carefully and choose wisely. Make note of any “life preservers” used.

If you make it to “1 million” years, what enabled you to accomplish this?
 If you didn’t make it, what could you have done differently?