Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_\_\_\_\_\_\_\_

Charles Darwin Game of Survival Student Sheet

*Visit the following Site:*

*<http://www.sciencechannel.com/games-and-interactives/charles-darwin-game.htm> Begin by clicking on “Learn About Natural Selection”*

*Part 1 Learn About Natural Selection*

1. What are some variations that a species can exhibit? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. How are traits passed on? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. What traits do the parent finches pass on to their offspring? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. What do we call it when the most beneficial traits are passed on? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Part 2 Survival of the fittest*

1. Select 3 variants of the species to begin the game.
	1. Describe your 3 creatures you chose and how they differ
		1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Use a life preserver when your species is in trouble.
3. Describe which traits have remained in your organism after the first chunk of time has passed. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. What natural disaster occurred? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. How many years did your species survive? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*If you are not successful try again, remember that greater diversity of genetic traits is a good thing and don’t forget about your life preserver.*

1. Select 3 variants to begin the game.
	1. Describe your 3 creatures and how they differ
		1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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5. How many years did your species survive? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Part 3: Darwin Bio – Read Darwin’s Biography*

1. What was the name of Darwin’s ship? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Where did he find many fossils? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. What was the name of his first book? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Part 4: Quiz -* Take the quiz. Get at least 8 out of ten correct to finish.

*Part 5: Analysis – Explain why it would be advantageous for a species to have a wide variety of traits. Use the animals that you worked with in the game as an example.*

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*Part 1 Learn About Natural Selection*

1. What are some variations that a species can exhibit? Color, size, strength
2. How are traits passed on? From parents to offspring
3. What traits do the parent finches pass on to their offspring? Color, eyes and beak
4. What do we call it when the most beneficial traits are passed on? “Survival of the fittest”

*Part 2 Survival of the fittest*

1. Select 3 variants to begin the game.
	1. Describe your 3 creatures and how they differ
		1. Ex. Long Neck, red head
		2. Ex. Long Legs, stripes
		3. Ex. Brown Fur, short body
2. Use a life preserver when your species is in trouble.
3. Describe which traits have remained in your organism after the first chunk of time has passed. Ex. Most have long necks, long legs and spikes
4. What natural disaster occurred? Ex. A new virus spreads
5. How many years did your species survive? Ex. 777,777 years

*If you are not successful try again, remember that greater diversity of genetic traits is a good thing and don’t forget about your life preserver.*

1. Select 3 variants to begin the game.
	1. Describe your 3 creatures and how they differ
		1. Ex. Long Neck, red head
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5. How many years did your species survive? Ex. 777,777 years

*Part 3: Darwin Bio – Read Darwin’s Biography*

1. What was the name of Darwin’s ship? HMS Beagle
2. Where did he find many fossils? South America
3. What was the name of his first book? Origin of the Species

*Part 4: Quiz -* Take the quiz. Get at least 8 out of ten correct to finish.

*Part 5: Analysis – Explain why it would be advantageous for a species to have a wide variety of traits. Use the animals that you worked with in the game as an example.*

*Answers will vary*