**Simplified Evolution Assessment Worksheet**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_

Choose the correct answer for each question from the given options.

 **Open Ended Questions**

1. What drives evolution?

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2. What is genetic drift?

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3. What do mutations do in evolution?

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4. How did the peppered moth change during the Industrial Revolution?

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5. What is adaptation?

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6. Why are Darwin's finches important?

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 **Multiple Choice Questions**

1. What is the primary mechanism that drives evolution?

a) Natural selection

b) Genetic drift

c) Mutations

d) Gene flow

2. Which of the following is an example of genetic drift?

a) A natural disaster drastically reduces the population size, altering allele frequencies.

b) A bird develops a new beak shape to eat different food.

c) A population of insects becomes resistant to pesticides.

d) Birds migrate to a new area.

3. What role do mutations play in evolution?

a) They introduce new genetic variations into a population.

b) They always have negative effects.

c) They prevent evolution.

d) They are not important in evolution.

4. How did the coloration of the peppered moth change during the Industrial Revolution?

a) The moths became darker to blend in with the soot-covered trees.

b) The moths became lighter to blend in with the soot-covered trees.

c) The moths developed spots.

d) The moths' coloration did not change.

5. Which of the following best describes adaptation?

a) A trait that increases an organism's chances of survival and reproduction in a particular environment.

b) A sudden change in the environment.

c) A random mutation that does not affect survival.

d) The movement of genes between populations.

6. What is the significance of Darwin's finches in the study of evolution?

a) They demonstrate how species can adapt to different environments, leading to speciation.

b) They show that evolution does not occur.

c) They are not significant in the study of evolution.

d) They demonstrate genetic drift.

**Simplified Evolution Assessment Worksheet - Answers**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_

Choose the correct answer for each question from the given options.

 **Open Ended Questions**

1. What drives evolution?

*Natural selection*

2. What is genetic drift?

*A natural disaster changes the population size and allele frequencies.*

3. What do mutations do in evolution?

*They create new genetic variations.*

4. How did the peppered moth change during the Industrial Revolution?

*The moths became darker to hide on soot-covered trees.*

5. What is adaptation?

*A trait that helps an organism survive and reproduce.*

6. Why are Darwin's finches important?

*They show how species adapt to different environments and form new species.*

 **Multiple Choice Questions**

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c) Mutations

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