



Name: _____

Date: _____

Student Exploration: Microevolution

Vocabulary: allele, cystic fibrosis, deleterious, dominant allele, fitness, genotype, heterozygote, superiority, heterozygous, homozygous, incompletely dominant, malaria, predator, recessive allele, sickle cell anemia

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

Many people from warm regions carry an **allele** that provides resistance to **malaria**. Two copies of this allele, however, causes a deadly blood disorder called **sickle cell anemia**.

1. Suppose two parents are healthy carriers of the sickle-cell allele. The **genotype** of each parent is AS (A is the normal allele, and S is the sickle-cell allele).

How likely is it for a child of these parents to have sickle cell anemia (SS)? **50%**

2. Do you think the allele for sickle cell anemia would be common in regions where malaria did not exist? Explain why or why not. **No, the allele for sickle cell anemia would not be common as the region would not be exposed to malaria, thus would not need a resistance towards it.**

Gizmo Warm-up

If natural selection does not favor one trait over another, the frequencies of various alleles in a population will tend to be stable over long periods of time. But what happens when one allele confers an advantage or disadvantage to an individual? These scenarios and others can be explored with the *Microevolution* Gizmo.



1. The feather color of the parrots in the Gizmo is controlled by two alleles, D and d . The D allele is **incompletely dominant** over d . What is the feather color of each parrot genotype?

DD **Dark green**

Dd **Light green**

dd **yellow**

2. The **fitness** of parrots is determined by how well they blend into the background trees. Set the **Fitness of DD** slider to 100% and the other fitness sliders to 60%.

The birds with which genotype blend into the background now? **DD**

3. Click **Begin**, and then click **Predator**. Which parrots were killed by **predators**? **Dd and dd**



Microevolution Gizmo Answers

Mike Jess

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

Microevolution Gizmo Answers:

Enjoying the Song of Appearance: An Mental Symphony within **Microevolution Gizmo Answers**

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Table of Contents Microevolution Gizmo Answers

1. Understanding the eBook Microevolution Gizmo Answers
 - The Rise of Digital Reading Microevolution Gizmo Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Microevolution Gizmo Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Microevolution Gizmo Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Microevolution Gizmo Answers
 - Personalized Recommendations

- Microevolution Gizmo Answers User Reviews and Ratings
- Microevolution Gizmo Answers and Bestseller Lists
- 5. Accessing Microevolution Gizmo Answers Free and Paid eBooks
 - Microevolution Gizmo Answers Public Domain eBooks
 - Microevolution Gizmo Answers eBook Subscription Services
 - Microevolution Gizmo Answers Budget-Friendly Options
- 6. Navigating Microevolution Gizmo Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Microevolution Gizmo Answers Compatibility with Devices
 - Microevolution Gizmo Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Microevolution Gizmo Answers
 - Highlighting and Note-Taking Microevolution Gizmo Answers
 - Interactive Elements Microevolution Gizmo Answers
- 8. Staying Engaged with Microevolution Gizmo Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Microevolution Gizmo Answers
- 9. Balancing eBooks and Physical Books Microevolution Gizmo Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Microevolution Gizmo Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Microevolution Gizmo Answers
 - Setting Reading Goals Microevolution Gizmo Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Microevolution Gizmo Answers
 - Fact-Checking eBook Content of Microevolution Gizmo Answers

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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