



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**



Answers For Microevolution Gizmo

RM Cervero



Answers For Microevolution Gizmo:

The Top Books of the Year Answers For Microevolution Gizmo The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Answers For Microevolution Gizmo : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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