



The Biology of Skin Color

hhmi | BioInteractive

Short Film
Student Handout

This handout supplements the short film [The Biology of Skin Color](#).

1. True / False. Biologists classify specific forms of traits as good or bad. For example, long tails in cats could be classified as good and short tails as bad. **False**
2. Explain the reasoning or evidence you used to answer Question 1.

Biologists do not assign a moral value, judgment, or statement of worth to particular traits, as this is outside of the product of science.

3. If you travel north from the equator, what generally happens to the intensity of ultraviolet (UV) light? _____
 - a. The intensity increases.
 - b. The intensity decreases.
 - c. The intensity stays the same.
 - d. It is impossible to predict.

My answer is B.

4. Who would you expect to be most at risk for developing the bone disease rickets? _____
 - a. Children born to mothers with dark skin, living far from the equator
 - b. Adults with dark skin who live close to the equator
 - c. Children born to mothers with light skin, living close to the equator
 - d. Adults with light skin who live close to the equator
 - e. Anyone who eats a diet that includes a lot of fish

My answer is A.

5. Explain the reasoning or evidence you used to answer Question 4.

Dark-skinned mothers living in high latitudes are at risk for vitamin D deficiency because environments far from the equator have lower levels of UV.

6. When Dr. Nina Jablonski describes her discovery of the UV data collected by NASA, a headline is visible that reads, "Ozone Depletion Raising Risk of Skin Cancer, Scientist Says." Use this headline and your understanding of what causes skin cancer to infer a beneficial feature of the ozone layer for humans. Why would a depleted ozone layer increase the risk of skin cancer?

The film goes over how UV damage to skin cell DNA can lead to cancer. Because the ozone raises the risk of skin cancer, people say that a depleted ozone layer is associated with a larger amount of UV reaching Earth's surface.

7. Ultraviolet light can cause mutations and other damage within cells, which can hurt an individual's chance of surviving and leaving offspring. Some molecules can protect cells from damage by UV. The amount of these molecules is determined by genes. Within a population, some individuals make more of these UV-protection molecules than others.

Biology Discussion Guide Answers

Ensheng Dong



Biology Discussion Guide Answers:

This book delves into Biology Discussion Guide Answers. Biology Discussion Guide Answers is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Biology Discussion Guide Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Biology Discussion Guide Answers
 - Chapter 2: Essential Elements of Biology Discussion Guide Answers
 - Chapter 3: Biology Discussion Guide Answers in Everyday Life
 - Chapter 4: Biology Discussion Guide Answers in Specific Contexts
 - Chapter 5: Conclusion
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Table of Contents Biology Discussion Guide Answers

1. Understanding the eBook Biology Discussion Guide Answers
 - The Rise of Digital Reading Biology Discussion Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Discussion Guide 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 Biology Discussion Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Discussion Guide Answers
 - Personalized Recommendations
 - Biology Discussion Guide Answers User Reviews and Ratings
 - Biology Discussion Guide Answers and Bestseller Lists
5. Accessing Biology Discussion Guide Answers Free and Paid eBooks
 - Biology Discussion Guide Answers Public Domain eBooks
 - Biology Discussion Guide Answers eBook Subscription Services
 - Biology Discussion Guide Answers Budget-Friendly Options
6. Navigating Biology Discussion Guide Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Discussion Guide Answers Compatibility with Devices
 - Biology Discussion Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Discussion Guide Answers
 - Highlighting and Note-Taking Biology Discussion Guide Answers
 - Interactive Elements Biology Discussion Guide Answers
8. Staying Engaged with Biology Discussion Guide Answers

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Discussion Guide Answers
9. Balancing eBooks and Physical Books Biology Discussion Guide Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Discussion Guide Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Biology Discussion Guide Answers
- Setting Reading Goals Biology Discussion Guide Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biology Discussion Guide Answers
- Fact-Checking eBook Content of Biology Discussion Guide 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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