



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.

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John Stuart Mackenzie



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