

Name:

Period:

Natural Selection and Planet X

A small group of students has been sent to live on Planet X. The students are sent without books, weapons, or technology to aid them. Planet X has no ozone layer to protect its surface from cancer-causing ultraviolet radiation, but plants and animals have evolved to live there safely. Below the surface is a series of underground tunnels, just a meter high, inhabited by carnivorous predators. Given this information answer the following questions:

1. What would descendants of the group of humans look like and how would they act after evolving for 100,000 years on Planet X?
2. Would all of the original students survive, or would it even be possible for any of the students to survive? Explain your answer!!
3. How do the survivors and their offspring demonstrate the idea of "survival of the fittest"?
4. After 100,000 years of evolving could the descendants of the original group return to earth and survive? Explain.