

Name: _____ Date: _____

Answer Key: Eco-Detectives: 1st Grade Habitat Engineering Quiz

Examine how unique landscapes solve human problems and predict the outcomes of changing nature through logic-based scenarios.

1. If a town builds a large park where a swamp used to be, what is one way the environment has changed?

Answer: B) Water might have a harder time draining away

Swamps act like sponges; when we modify them into parks, the land may face new drainage or flooding issues.

2. True or False: Planting a vegetable garden is a way that humans depend on the soil and sun to survive.

Answer: A) True

Gardening is a form of dependence because we rely on natural resources like soil, water, and light for our food.

3. People living in the high Andes mountains developed larger lungs over a long time to help them breathe the thin air. This is an example of _____.

Answer: B) adaptation

Adaptation is when the human body or behavior changes to better fit the surroundings, like high altitudes.

4. Imagine a village built on stilts over a river in Vietnam. Why did the people choose to build their homes this way?

Answer: B) To keep their homes dry during floods

Building on stilts is a smart adaptation to an environment that has a lot of water or seasonal flooding.

5. When a logging company cuts down an entire forest to make paper, they are _____ the environment.

Answer: B) modifying

Modifying means changing the physical landscape, such as removing trees to use the land or wood.

6. True or False: Using a solar panel to catch energy from the sun is a way humans modify the sun.

Answer: B) False

Name: _____ Date: _____

Solar panels are a way we depend on the sun's energy; we are not actually changing or modifying the sun itself.

7. A new highway is built through a desert. What is a likely consequence for the animals living there?

Answer: B) The animals' habitat is split into two pieces

Human modifications like roads often break up the natural homes (habitats) of local wildlife.

8. In very foggy places like parts of Chile, people use large nets to catch water from the air. This shows they _____ on the fog for water.

Answer: A) depend

Using fog nets is a creative way humans depend on their specific local climate to get the resources they need.

9. True or False: Building a bridge over a canyon is an example of humans modifying the environment to travel easier.

Answer: A) True

By building a bridge, humans change the physical landscape to overcome a natural obstacle.

10. If we want to reduce the negative consequences of using too much plastic, what should we do?

Answer: C) Recycle and use bags made of cloth

Choosing reusable materials is a way humans can change their behavior to help the environment recover from negative consequences.