

Effects of Humans on Habitats and Living Things

1. River Pollution Scenario

A factory dumped waste into a river. Fish and plants began to die. A group of students designed three solutions:

- A. Add more fish to the river
- B. Build a water filter system before waste enters the river
- C. Paint the riverbanks to make the area look nicer

Which design BEST improves the habitat long term?

- A. A
- B. B
- C. C
- D. All three are equally effective

2. Deforestation Problem

A forest was cleared to build houses. Many birds lost their nests. Which plan would BEST help restore the bird habitat?

- A. Build birdhouses in nearby cities
- B. Plant native trees and protect new growth
- C. Add playground equipment
- D. Remove insects from the area

3. Beach Habitat Damage

Trash has washed up on a beach, harming sea turtles. Which design would MOST directly reduce the problem?

- A. Organize regular beach cleanups and add more trash bins
- B. Put up signs showing pictures of turtles
- C. Close the beach forever
- D. Add more sand to the beach

4. Evaluating Two Designs

A wetland was damaged by construction. Two groups propose solutions:

- Group 1: Plant native wetland plants and limit building nearby
- Group 2: Add concrete paths so people can walk through easily

Which statement BEST evaluates the designs?

- A. Group 2 is better because it makes walking easier
- B. Group 1 is better because it restores natural habitat conditions
- C. Both are equally helpful
- D. Neither design will affect the habitat

5. Farm Runoff Problem

Rain washes fertilizer from farms into a nearby pond, causing algae to grow quickly and harm fish. Which solution is MOST effective?

- A. Use barriers or plant grasses to absorb runoff
- B. Add more fish to eat the algae
- C. Drain the pond
- D. Paint the water blue