Teacher Answer Key

Case Study

1. Krill transfer energy from phytoplankton to larger predators, linking lower and higher trophic levels.

2. A decline in krill reduces food for penguins, whales, and seals, leading to population declines.

Multiple Choice

1. C

2. D

3. D

Matching

1-D, 2-A, 3-B, 4-E, 5-C

Fill-in-the-Blank

1) 10%, 2) Food web, 3) Blue whale

Short Answer (Sample Responses)

Q1: Food webs show multiple feeding relationships, making them more accurate than simple chains.

Q2: Energy is lost at each step, so fewer organisms can be supported at higher levels.

Q3: Overfishing or pollution can remove key species, disrupting balance in the web.