Teacher Answer Key

Case Study

1. The cod decline shows how removing top consumers disrupts energy flow and destabilizes food webs.

2. Without cod, mid-level consumers expanded, altering prey populations and preventing recovery.

Multiple Choice

1. A

2. B

3. D

Matching

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

Fill-in-the-Blank

1) 10%, 2) Biomass (or: Trophic), 3) Trophic

Short Answer (Sample Responses)

Q1: Warm-blooded animals require more energy for heat regulation, reducing efficiency.

Q2: Most energy is lost at each level, so fewer organisms can survive at the top.

Q3: Overfishing, pollution, or climate change can disrupt balance between trophic levels.