Teacher Answer Key

Case Study

1. Because phosphorus stored in sediments continues to leak back into the water.

2. Algal blooms reduce oxygen, kill fish, and disrupt ecosystems.

Multiple Choice

1. C

2. B

3. C

Matching

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

Fill-in-the-Blank

1) Nitrogen fixation, 2) Eutrophication, 3) Gaseous

Short Answer (Sample Responses)

Q1: Because phosphorus input is slower and cannot be replenished from the atmosphere.

Q2: By adding excess nitrogen from fertilizers and sewage, causing algal blooms and hypoxia.

Q3: Because they regulate primary productivity and control how much carbon the ocean absorbs.