Teacher Answer Key

Case Study

1. Nutrients fuel algal blooms, which decompose and use up oxygen.

2. It shows how agriculture and runoff on land directly reduce oxygen in seawater.

Multiple Choice

1. C

2. A

3. B

Matching

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

Fill-in-the-Blank

1) Oxygen, 2) Carbon dioxide, 3) Nitrogen fixation

Short Answer (Sample Responses)

Q1: Because cold water holds more dissolved gases, leading to oxygen-rich conditions.

Q2: Nutrient-fueled algal blooms die and decompose, consuming oxygen.

Q3: It makes nitrogen available for building proteins and DNA, supporting productivity.