Teacher Answer Key

Case Study

1. Physics (circulation), chemistry (nutrients), biology (dinoflagellates), geology (sediment trapping).

2. Mixing would increase oxygen levels and likely reduce bloom intensity by dispersing nutrients.

Multiple Choice

1. A

2. D

3. B

Matching

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

Fill-in-the-Blank

1) Secchi, 2) Interdisciplinary (or: Multidisciplinary), 3) Dinoflagellates

Short Answer (Sample Responses)

Q1: Because the ocean is a system—currents affect nutrients, nutrients affect organisms, and sediments record change.

Q2: Examples: predicting storms, discovering medicine, sustaining fisheries.

Q3: Plant buffer strips, reduce fertilizer, monitor runoff.