Teacher Answer Key

Case Study

1. Zooplankton could not consume coccolithophores easily, reducing food for fish and affecting higher predators.

2. The bloom sequestered large amounts of carbon by sending calcium carbonate plates to the ocean floor.

Multiple Choice

1. A

2. B

3. C

Matching

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

Fill-in-the-Blank

1) flagella, 2) calcium carbonate, 3) frustules

Short Answer (Sample Responses)

Q1: Blooms reduce food availability for zooplankton and fish, disrupting predator populations.

Q2: Their silica shells sink with captured carbon, storing it in deep-sea sediments.

Q3: Flagella allow them to swim upward or downward in the water column.