Teacher Answer Key

Case Study

1. Fish populations migrate to feed on zooplankton that increase during the bloom.

2. The bloom captures carbon and sends it into the deep ocean, reducing atmospheric CO_2.

Multiple Choice

1. B

2. C

3. A

Matching

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

Fill-in-the-Blank

1) grass, 2) space, 3) greenhouse

Short Answer (Sample Responses)

Q1: They convert sunlight into energy and provide food for zooplankton, which support higher trophic levels.

Q2: Diatoms use silica shells, while coccolithophores use calcium carbonate plates for protection and carbon storage.

Q3: Satellites measure chlorophyll levels to track ocean productivity and detect environmental changes.