Teacher Answer Key

Case Study

1. Because they lack sufficient iron to use nitrogen and phosphorus.

2. By showing that adding iron stimulated phytoplankton blooms.

Multiple Choice

1. D

2. A

3. B

Matching

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

Fill-in-the-Blank

1) Nitrogen, 2) HNLC, 3) Upwelling

Short Answer (Sample Responses)

Q1: Because circulation, depth, and local conditions influence which nutrient is scarce.

Q2: By adding fertilizers that increase nitrogen and phosphorus, or climate change reducing mixing.

Q3: Because phytoplankton cannot grow without iron, even when other nutrients are available.