Teacher Answer Key

Case Study

1. Because they entered the ocean only recently, providing clear time markers.

2. They show how long surface carbon remains stored in deep waters.

Multiple Choice

1. C

2. D

3. D

Matching

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

Fill-in-the-Blank

1) Water masses, 2) Nutrients, 3) NADW

Short Answer (Sample Responses)

Q1: By tracking changes in oxygen, nutrients, or tracers like CFCs that vary over time.

Q2: Because circulation determines how heat, carbon, and nutrients are distributed globally.

Q3: By providing a precise chemical marker for modern water circulation studies.