Teacher Answer Key

Case Study

1. Icelanders use natural steam and hot water for heating, electricity generation, and greenhouse cultivation.

2. The volcano's subglacial eruption propelled ash high into flight paths, causing widespread air travel disruptions.

Multiple Choice

1. C

2. B

3. B

Matching

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

Fill-in-the-Blank

1) Divergent, 2) Seafloor spreading, 3) Rift valley

Short Answer (Sample Responses)

Q1: By examining new crust ages and magnetic patterns, scientists track how plates move apart over time.

Q2: Continental rifts occur on land, often featuring volcanic mountains and potential for new seas, while mid-ocean ridges are underwater chains.

Q3: Rift regions often have abundant geothermal reservoirs, providing a cleaner alternative to fossil fuels.