

SECTION

1

Enrichment

Studying Seafloor Spreading on Land

You know from your textbook how seafloor spreading changes the ocean floor. You know that magma rises at the mid-ocean ridge and flows away from the ridge. In general, this activity is hidden beneath the ocean's water. But there is a place where seafloor spreading can be seen on land.

Figure 1

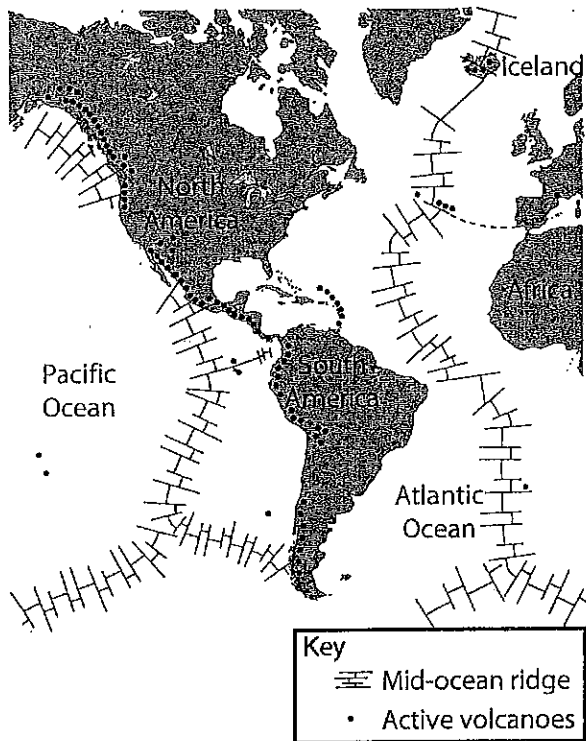
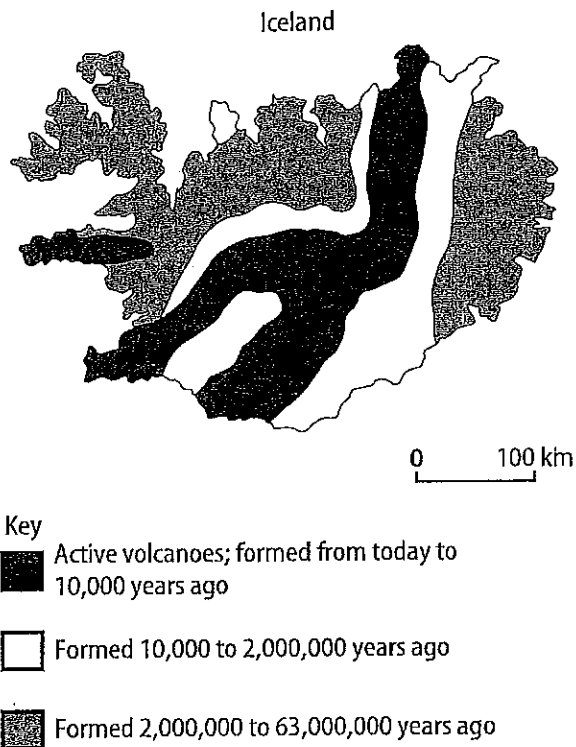


Figure 2



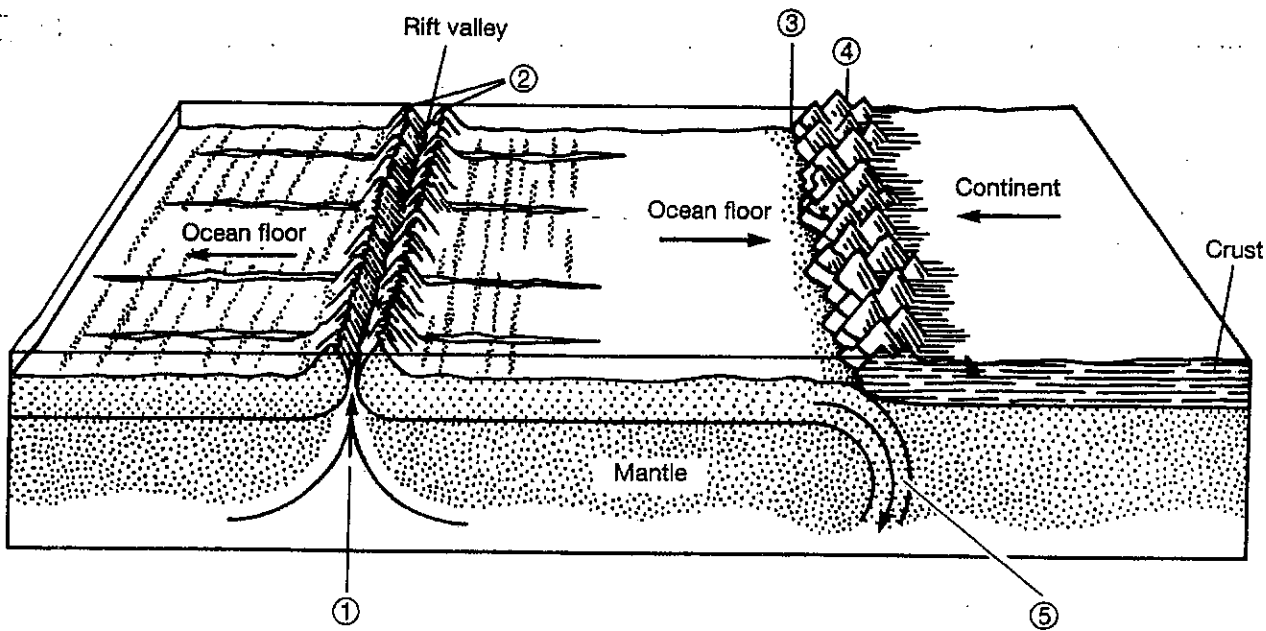
1. What is the name of the landmass through which the mid-ocean ridge in the Atlantic Ocean passes?

2. How do the land structures of Iceland help confirm seafloor spreading?

3. Why do you think geologists might find Iceland a useful place to conduct research on seafloor spreading?

■ Interpreting Diagrams: Understanding the Main ideas

Carefully observe the diagram below. Then answer the questions that follow.



1. What is happening at point 1 in the diagram? _____

2. What type of feature is located at point 2 in the diagram? What is happening to the ocean floor at this point? _____

3. What feature is located at point 3 in the diagram? _____

4. What feature is being formed at point 4? Why is this happening? _____

5. What is happening at point 5 in the diagram? _____

6. Magma returns to part 1 and the process repeats this is called?