



Science Toolkit: Grade 6 Objective 2.C.2.a

Student Handout: Science: Grade 6 Objective 2.C.2.a

Standard 2.0 Earth/Space Science

Topic C. Plate Tectonics

Indicator 2. Recognize and explain how major geologic events are a result of the movement of Earth's crustal plates.

Objective a. Recognize and describe the evidence for plate movement.

Shape of continents

Continuity of geologic features and fossils on the continents

Ocean rifts, seafloor spreading

Global patterns of earthquakes and volcanoes

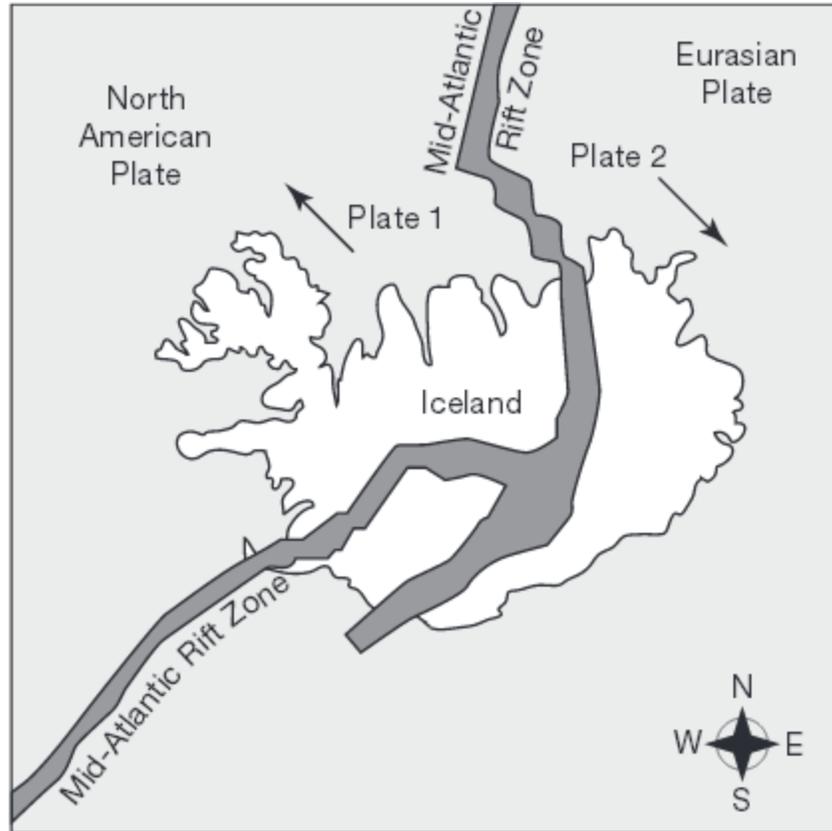
Selected Response (SR) Item

Question

Use the information and map below to answer the following:

The tectonic plates on opposite sides of a rift zone are continuously moving outward, away from a break in the crust of Earth. The Mid-Atlantic Rift Zone is located in the Atlantic Ocean. This rift zone stretches from the Arctic Ocean in the Northern Hemisphere to beyond the southern tip of Africa in the Southern Hemisphere. Within the central rift zone, new crust forms.

Iceland is an island sitting atop the northern part of the Mid-Atlantic Rift Zone. Over time, activity along the rift zone has changed the geologic features of Iceland.



How will movement of the tectonic plates most likely continue to change the geologic features of Iceland?

- A. The surrounding ocean will cover Iceland.
- B. The glaciers covering Iceland will increase.
- C. The surface of Iceland will become smooth and flat.
- D. The surface of Iceland will increase from east to west.

Correct Answer

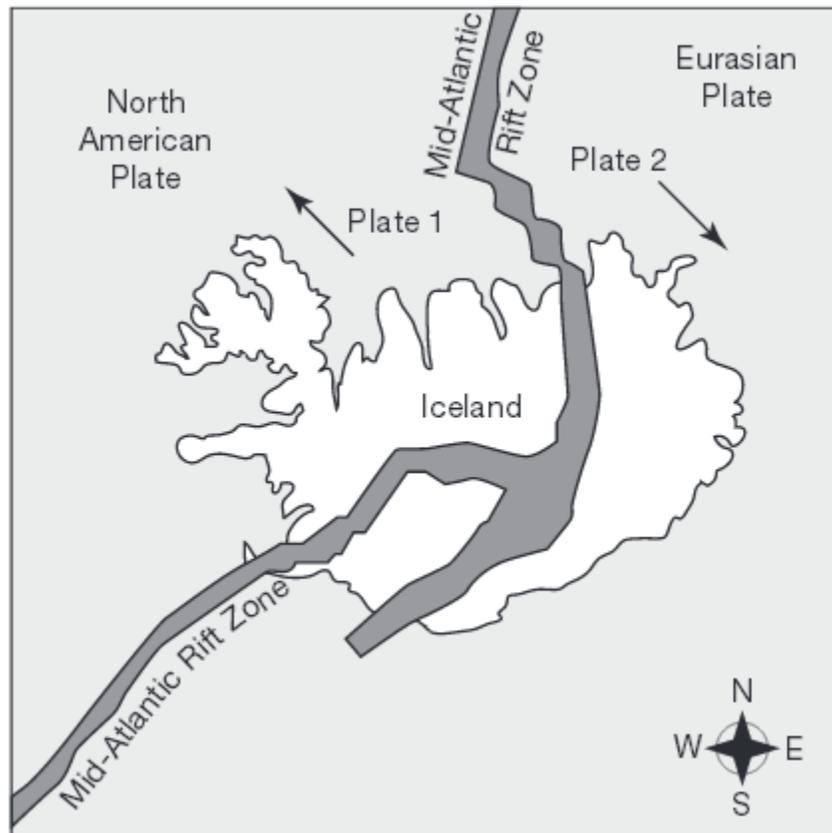
- D. The surface of Iceland will increase from east to west.

Question

Use the information and map below to answer the following:

The tectonic plates on opposite sides of a rift zone are continuously moving outward, away from a break in the crust of Earth. The Mid-Atlantic Rift Zone is located in the Atlantic Ocean. This rift zone stretches from the Arctic Ocean in the Northern Hemisphere to beyond the southern tip of Africa in the Southern Hemisphere. Within the central rift zone, new crust forms.

Iceland is an island sitting atop the northern part of the Mid-Atlantic Rift Zone. Over time, activity along the rift zone has changed the geologic features of Iceland.



How will movement of the tectonic plates most likely continue to change the geologic features of Iceland?

- A. The surrounding ocean will cover Iceland.
- B. The glaciers covering Iceland will increase.
- C. The surface of Iceland will become smooth and flat.
- D. The surface of Iceland will increase from east to west.