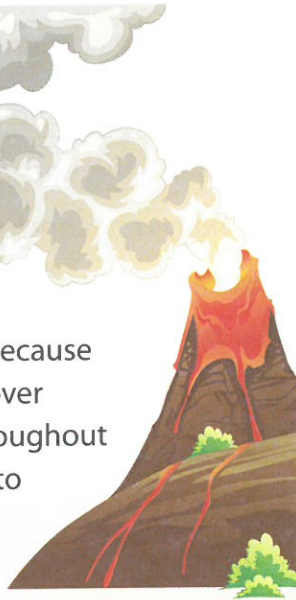


Note: Before you begin to read the text, answer Question 1 on the opposite page.

## Unseen Volcanoes Build New Land

Some of the world's biggest volcanoes have never been seen. Why? Because they lie far below the sea! Earth's largest mountain ranges zigzag all over the ocean floor. More than 5000 volcanoes have been discovered throughout these ranges. Every day, at least one volcano erupts, causing hot lava to pour onto the sea floor. The ocean's cold water cools the lava almost immediately, turning it into rock. Layers of this rock build up. If the rock rises above the ocean surface, it forms an island.



Hawaii and Iceland are volcanic islands. Hawaii is still growing. Its active volcanoes still erupt, and their lava adds more land.

The world's newest volcanic island appeared in 1963 near Iceland. Sailors saw a huge cloud of smoke and steam. They moved their ship closer and witnessed the birth of a new island. This island kept growing for the next three and a half years. Its name is Surtsey.

Even lava that doesn't reach the sea's surface affects land. Over a long time, the lava on the ocean floor expands and pushes on the continents. This causes them to move a little. Each of Earth's seven continents moves from 2.5 – 7.62 cm a year. This means that Earth's surface is always changing. A million years ago, Earth looked different than it does today. A million years from now, it will have changed again.



### Focus: Making Connections - Using Prior Knowledge

Whenever you read, you bring what you already know about the subject to the text. Use this prior knowledge and the information written in the text to make sense of the new information you read.

1 Write down two things you already know about volcanoes.

a \_\_\_\_\_

b \_\_\_\_\_

### Literal Questions

2 Where does Earth's largest mountain range zigzag?

3 According to the report, what happens every day?

4 What does the ocean's cold water do to the lava?

5 List three places mentioned in the text which are volcanic islands.

6 When and where did the world's newest island appear?

### Focus: Monitoring - Commenting on Things Learned

After reading a text, it is important to comment on things you have learned about the topic. This will help you to remember the information.

7 Write down two things you learned from reading this text.

a \_\_\_\_\_

b \_\_\_\_\_

### Inference Questions

8 What is the main idea of paragraph 3?

9 Volcanoes have something to do with the changing shape of the Earth's surface.

true

false

you can't tell

10 Are Earth's largest mountain ranges still growing? Explain your answer.