



## NATURAL MARVELS

# Mountains of Fire

How do volcanoes form? What is the name of the only active volcano on the mainland of Europe?

Read *Mountains of Fire* to find out!

### What did you learn?

#### QUESTIONS

- Volcanoes form from ...
  - Erosion
  - Magma
  - Ice
  - Earthquakes
- Vesuvius is located in ...
  - South America
  - Australia
  - China
  - Europe
- Most volcanoes form near ...
  - Mountains
  - Tectonic plate boundaries
  - Rivers
  - Cities
- Paricutín erupted in ...
  - 1943
  - 1945
  - 1934
  - 1960
- What does the name *Mauna Loa* mean?
- In which country is Paricutín?

#### TRUE OR FALSE?

- |  |  |
|--|--|
| _____ 1. The peak of Vesuvius is a shallow cone with a bowl-shaped crater. | _____ 4. The Hawaiian islands are a chain of flatland islands. |
| _____ 2. Mauna Loa produces rivers of lava rather than explosions.         | _____ 5. Mauna Loa is small and short.                         |
| _____ 3. Paricutín is a small, cone-shaped mountain.                       | _____ 6. Pompeii was destroyed by Vesuvius.                    |



## ANSWERS

- 1. b. Magma.** According to section “Where Volcanoes Form” on page 6, we know that “Volcanoes form where magma rises from underground to erupt unto the surface.” So, the correct answer is B.
- 2. d. Europe.** According to section “Where Is Vesuvius and What’s Special About It?” on page 10, we know that “Vesuvius is the only active volcano on the mainland of the continent of Europe.” So, the correct answer is D.
- 3. B. Tectonic plates.** According to section “How Mauna Loa Formed” on page 26, we know that “Most volcanoes form near the boundaries between tectonic plates ... ” So, the correct answer is B.
- 4. A. 1943.** According to section “The Eruption of Paricutín” on page 36 we know that “On Feb. 20, 1943, farmer Dionisio Pulido was clearing his field when a crack about 6 feet (2 meters) long opened up in the ground.” So, the correct answer is A.
- 5.** According to page 22, the name *Mauna Loa* means *long mountain* in the native language of Hawaii.
- 6.** According to page 32, Paricutín is in Mexico.

## TRUE OR FALSE? ANSWERS

- 1. False.** According to section “The Shape of Vesuvius” on page 12, we know that “The peak of Vesuvius is a steep cone with a bowl-shaped crater at its top.” So, the correct answer is False.
- 2. True.** According to section “Where Is Mauna Loa and What’s Special About It?” on page 22, we know that “Rather than producing explosions, the mountain produces fountains and rivers of lava.” So, the correct answer is True.
- 3. True.** According to section “Where Is Paricutín and What’s Special About It?” on page 32, we know that “About 200 miles (320 kilometers) west of Mexico City, Mexico, near the city of Urupan, lies a fairly small, cone-shaped mountain called Paricutín.” So, the correct answer is True.
- 4. False.** According to section “The Hawaiian Chain” on page 28, we know that “The Hawaiian islands are all made up of volcanoes that formed in much the same way.” So, the correct answer is False.
- 5. False.** According to section “The Size of Mauna Loa” on page 24, we know that “Mauna Loa is both tall and broad.” So, the correct answer is False.
- 6. True.** According to section “The Destruction of Pompeii” on page 18, we know that “In A.D. 79, Vesuvius produced one of the most famous and destructive eruptions in history. Some of the pyroclastic flows destroyed the cities of Pompeii and Herculaneum.” So, the correct answer is True.