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# My NASA Data - Mini Lesson/Activity

## What is a Volcano?

### Grade Band

- 3-5
- 6-8

### Time

- 30 minutes

### Overview

Compare pictures of different volcanoes. Then visit NASA's Space Place to learn about volcanoes and answer questions about volcanic eruptions.

### Student Directions

#### Steps

1. Follow your instructor's directions to work alone or in groups. Check with your instructor on how to submit answers.
2. Examine the images and answer the questions.



*Lava fountain at Kilauea Volcano, Hawai'i. Credit: J.D Griggs, USGS*

[Image 1: Lava fountain at Kilauea Volcano, Hawai'i.](#)

[Image Credit: J.D. Griggs, USGS](#)

[https://mynasadata.larc.nasa.gov/sites/default/files/inline-images/fire%20eruption\\_1.PNG](https://mynasadata.larc.nasa.gov/sites/default/files/inline-images/fire%20eruption_1.PNG)

1. Look at [Image 1](#). What did you see in the first volcano image?



*This photograph shows an eruption of Mount St. Helens in Washington in July 1980. This eruption sent ash 6 to 11 miles (10-18 kilometers) into the air, and was visible in Seattle, Washington, 100 miles (160 kilometers) to the north. Credit: Mike Doukas, USGS*

[Image 2: Mount](#)

[Saint Helens eruption, July 1980](#)

[Image Credit: Mike Doukas, USGS](#)

<https://mydasdata.larc.nasa.gov/sites/default/files/inline-images/Mount%20St%20Helens.PNG>

2. Look at [Image 2](#). What did you see in the second volcano image?



*Lava bubbles up from Kilauea Volcano in Hawai'i Volcanoes National Park. Credit: Scott Horvath, USGS.*

[Image 3: Lava bubbles up from Kilauea Volcano in Hawai'i](#)

[Image Credit: Scott Horvath, USGS](#)

<https://mynasadata.larc.nasa.gov/sites/default/files/inline-images/Lave%20Bubbles.PNG>

3. Look at [Image 3](#). What did you see in the third volcano image?
  4. How are the three images different?
  5. How are the three images similar?
3. Review the introductory information provided in "[What is a Volcano?](#)" available from NASA's Space Place to answer the following question.
1. What are three ways magma can reach the surface of Earth?

#### **Sources:**

1. What Is a Volcano? (n.d.). NASA Space Place. Retrieved April 28, 2022, from <https://spaceplace.nasa.gov/volcanoes2/en/>

#### **Teacher Note**

Teachers, these mini lessons/student activities are perfect "warm up" tasks that can be used as a hook, bell ringer, exit slip, etc. They take less than a class period to complete. Learn more on the "[My NASA Data What are Mini Lessons?](#)" page.

Teachers who are interested in receiving the answer key, please complete the [Teacher Key Request and Verification Form](#). We verify that requestors are teachers prior to sending access to the answer keys as we've had many students try to pass as teachers to gain access.

#### **NGSS Three Dimensional Learning**

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## **NGSS Disciplinary Core Ideas**

- ESS2A: Earth Materials and Systems
- ESS2B: Plate Tectonics and Large-Scale Systems

## **Crosscutting Concepts**

- Cause and Effect

## **Science and Engineering Practices**

- Analyzing and Interpreting Data

## **Document Resources**

- [What are Volcanoes? Images](#)