

Worksheet: Volcanoes

Find the most spectacular volcanoes in the world!

Purpose: This participation and discussion exercise enables students to discover for themselves the notable volcanoes of the world and some basic information about each.

Objectives: Students will be able to:

- > geographically locate 12 notable volcanoes
- > see images of real active volcanoes
- > identify key features of volcanic activity

Skills: Students can demonstrate:

- > Researching
- > Classifying
- > Communicating
- > Observing
- > Posing questions

Time Required: 45 minutes.

Group Size: In small groups of 4.

Materials/Preparation: Includes:

- > Access to the internet for each group
- > The following 2 teacher guide sheets
- > A printed copy of the 12 volcanoes to locate and research for each group.
- > A copy of the Volcano Teacher Briefing

Background: Volcanoes form when magma reaches the Earth's surface, causing eruptions of lava and ash. They occur at destructive and constructive plate boundaries. The immediate effects of volcanic eruptions can be devastating, but they may be beneficial in the long term.

A volcano is usually a cone shaped mountain or hill that opens downward to a pool of molten rock below the surface of the earth.

When pressure builds up, eruptions occur. Gases and rock shoot up through the opening and spill over or fill the air with lava fragments. Some volcanoes even exist underwater, along the ocean floor or sea bed.

Activity: Follow these steps:

1. Print off the:

- Information Required sheet
- Volcano Locations sheet
- The 12 Volcano sheets for each group
- The Volcano Teacher Briefing

2. Spend 20 minutes engaging students in the formation and types of Volcanoes. (Prepare by reading the Teacher Briefing).

3. Provide each small group with a set of the 12 volcanoes and challenge the students to:

- locate each volcano
- identify the height of each volcano
- identify the type of each volcano

4. Review the students discoveries and accuracy in identifying the information for each volcano.

5. Use the Information and Location sheets to compare and add to any extra findings.

Closure: Ensure each group has corrected any incorrectly identified volcano locations or key facts.

Extending the Lesson: Encourage students to do some research on volcanoes and discover other volcanoes across the world.

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Information Required:

Mount Etna

Height: 10,922 ft
Location: Sicily, Italy
Type: Stratovolcano

Colima

Height: 13,976 ft
Location: Colima, Mexico
Type: Stratovolcano

Mauna Loa

Height: 13,679 ft
Location: Hawaii, USA
Type: Shield volcano

Mount Merapi

Height: 9,613 ft
Location: Java, Indonesia
Type: Stratovolcano

Avachinsky

Height: 8,993 ft
Location: Kamchatka, Russia
Type: Stratovolcano

Mount St Helens

Height: 8,365 ft
Location: Washington, USA
Type: Stratovolcano

Mount Nyiragongo

Height: 11,385 ft
Location: Democratic Republic
of the Congo
Type: Stratovolcano

Sakurajima

Height: 3,665 ft
Location: Kagoshima, Japan
Type: Stratovolcano

Taal

Height: 1,312 ft
Location: Talisay, Phillipines
Type: Complex volcano

Teide

Height: 3,718 ft
Location: Tenerife, Spain
Type: Stratovolcano

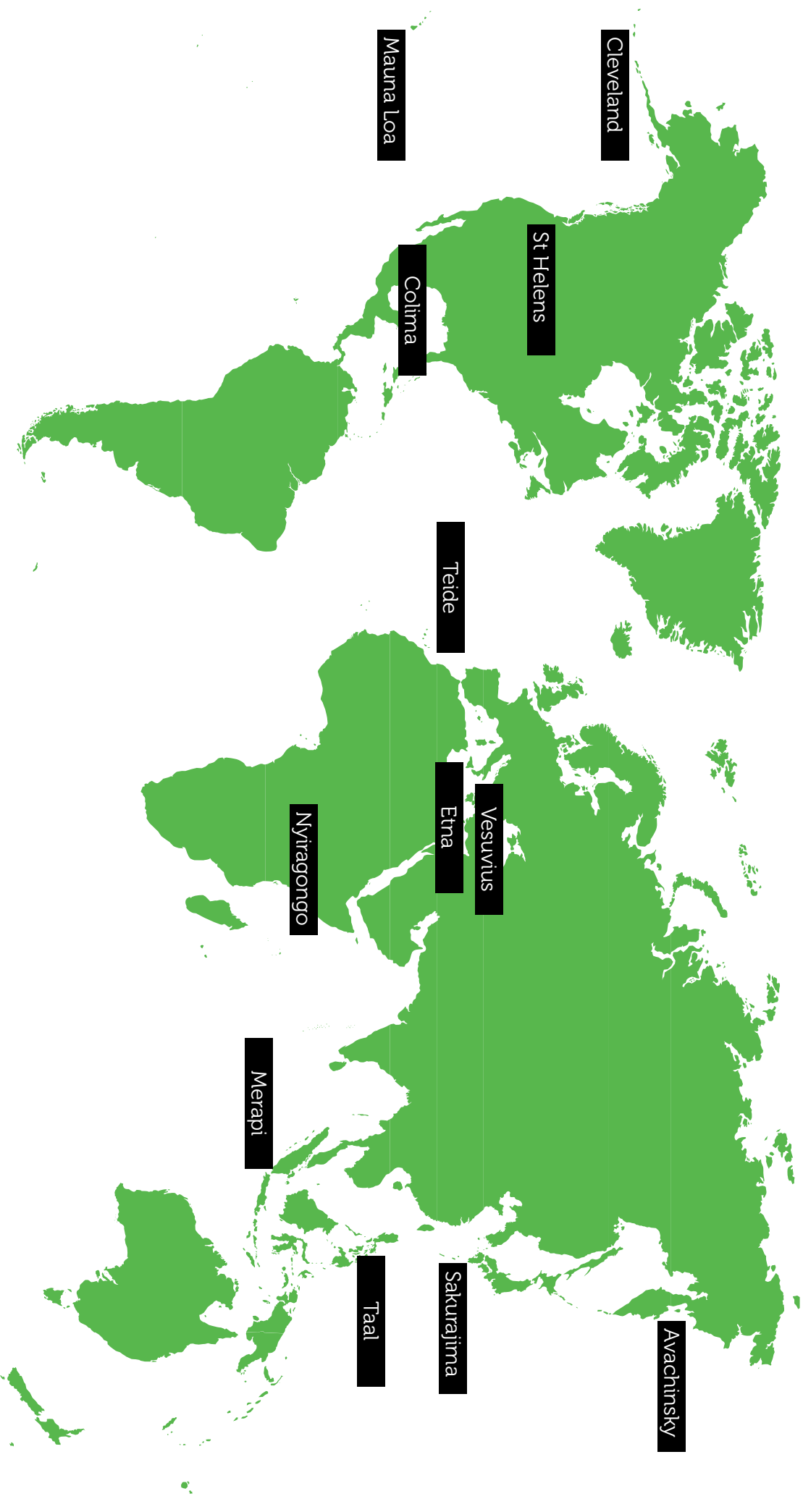
Mount Vesuvius

Height: 4,203 ft
Location: Naples, Italy
Type: Somma volcano

Mount Cleveland

Height: 5,676 ft
Location: Chuginadak Island, Alaska
Type: Stratovolcano

Volcano Locations



Mount Etna



Colima



Mauna Loa



Avachinsky



Mount St Helens



Mount Nyiragongo



Sakurajima



Taal



Teide



Mount Vesuvius



Mount Cleveland

