



Teacher Resource

Icelandic Volcano

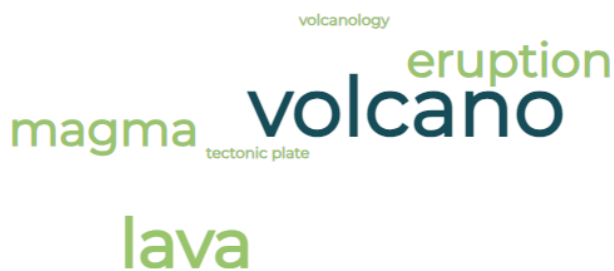
Focus Questions

Discuss the BTN story as a class and record the main points of the discussion. Students will then respond to the following:

1. Where is Iceland? Find on a world map.
2. Iceland is one of the most volcanically active places in the world. True or false?
3. What is a volcanic hotspot?
4. What is geothermal power? Describe using your own words.
5. Name three facts you learnt watching this story.

Activity: Word Cloud

Students will create a word cloud poster about volcanoes. A word cloud is a visual made up of important/key words relating to a topic. Ask students to think of words they associate with volcanoes. Create a word cloud using a free online word cloud creator such as [MonkeyLearn](#) or [Word It Out](#)



Activity: Class Discussion

After watching the BTN story, hold a class discussion using the following discussion starters.

- What do you know about volcanoes? Record what you know on a mind map.
- Why does Iceland have a lot of volcanoes?
- How have the eruptions impacted the community in Grindavik?



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KEY LEARNING

Students will learn more about the characteristics of volcanoes and what causes them to erupt.

CURRICULUM

Science – Year 6

Sudden geological changes and extreme weather events can affect Earth's surface.

Science involves testing predictions by gathering data and using evidence to develop explanations of events and phenomena and reflects historical and cultural contributions.

Scientific understandings, discoveries and inventions are used to solve problems that directly affect peoples' lives.

Scientific knowledge is used to solve problems and inform personal and community decisions.

Science – Years 5 & 6

With guidance, pose clarifying questions and make predictions about scientific investigations.

Activity: Glossary

Students will brainstorm a list of key words that relate to the BTN Icelandic Volcano story. Here are some words to get them started.

LAVA	MAGMA	FISSURE
TECTONIC PLATES	GEO THERMAL	MANTLE

Ask students to write what they think is the meaning of each word (including unfamiliar words). They will swap definitions with a partner and ask them to add to or change the definition. Check these against the dictionary definition.

Activity: Volcanoes Research

Discuss the information raised in the BTN Icelandic Volcano story. What questions were raised in the discussion and what are the gaps in students’ knowledge?

What do I <u>k</u> now?	What do I <u>w</u> ant to know?	What have I <u>l</u> earnt?	<u>H</u> ow will I find out?

Students will develop their own question/s to research or choose one or more of the questions below.

- What is the connection between volcanoes and tectonic plates?
- Where are volcanoes typically found? Explore the similarities and differences between volcanoes found on hotspots across tectonic plates or at the boundaries.
- How many active volcanoes are there worldwide? Locate some of Earth’s active volcanoes on a map and describe their proximity to Australia. Draw the Ring of Fire on your world map.
- Are there any volcanoes in Australia? Locate these volcanoes on a map of Australia. Choose one to research in more detail.
- How can you tell if a volcano is active or dormant? Explore and describe the features of an active and dormant volcano. How do scientists monitor volcanoes?
- What are the different layers of a volcano? Draw a cross section of a volcano showing the following features: crust, mantle, crater, magma chamber, magma, ash, cloud, vent. Explain some of the features of each layer.
- What is the difference between shield, composite, and cinder cone volcanoes?
- What impact can volcanic eruptions have on people and the environment? Consider the negative and positive effects.

Activity: Volcano Facts

In small groups, students will find out as much as they can about volcanoes and compile the information they find into a list of facts. Provide students with a list of suggested questions and/or topics to guide their research, for example:

- What is a volcano?
- How do volcanoes form?
- What causes a volcano to erupt?
- What are the different types of volcanoes?
- What are some of the main risks during a volcanic eruption?

Hold a class discussion by asking each group to share one interesting fact they learned during their exploration. Record students' responses to create a collective list of facts about volcanoes.

Students will use the facts they have discovered about volcanoes to create a quiz and then test their classmates. Students will include a range of quiz styles, for example:

- Multiple choice
- True or false
- Fill in the blank
- Use photos or pictures
- When an answer is revealed, provide extra information to explain the answer.



Students can make their quizzes in [Kahoot](#) or [Quizizz](#). Make it fun, engaging, and educational!

Activity: Visual Literacy

In this activity students will analyse images which show the volcano in Iceland and the impact it has had. Students will choose one or more of the images below and respond to the following:

- What is happening in the image? Create a caption for each image.
- What does the image help you understand about volcanoes?
- What does the image tell you about the impact volcanoes have on a community?
- What questions do you have about what you see in the image?



[ABC News](#)



[ABC News](#)



[ABC News](#)



[ABC News](#)

Activity – Choose a Project

Individually or in small groups, students will choose one of the following projects to work on and then present their findings to the class.

Make a volcano

Make your own pocket volcano. Follow [these instructions](#) from the Australian Museum.

Famous volcanoes

What are some of the world's most famous volcanoes? Create a "Who Am I" quiz about the top 3 most famous volcanoes and test your classmates.

The stages of volcanic eruption

Research the sequence of events that leads to a volcano erupting. Watch this TedEd video [What Makes Volcanoes Erupt](#) to learn more.

Did you know?

Using the information in the BTN story and your own research, create a *Did You Know* fact sheet about volcanoes. Publish using [Canva](#).

Useful Websites

- [Iceland volcano: Fourth eruption since December](#) – Newsround
- [Icelandic town of Grindavik evacuated again after further volcanic eruption](#) – Newsround
- [Volcanoes Explained](#) – BTN
- [Volcanic Activity](#) – BTN
- [What is a volcano?](#) – Geoscience Australia
- [Structure of volcanoes](#) – Australian Museum