

Science Topic Geology
Grade 4
Activity “Volcano Research Project”

ACTIVITY DESCRIPTION

Through this activity, students learn how to research key information about volcanoes and are provided an opportunity to synthesize their learning. This activity requires approximately two weeks to complete.

In order to complete this activity, students will need access to:

- Graphic organizers (attached)
- Copy of the grading rubric (attached)
- Tri-fold brochure paper (11x17 inch recommended)
- Colored pencils
- Computers for research—The teacher will need to model how to log on and use grade-appropriate databases on their school or local library.
- School and local library books—The teacher should consider providing multiple books from local and school libraries.

Name _____ Date _____ Color _____ # _____

Volcano Research Brochure

Your brochure must include the following:

1. A colorful front and back cover that makes people want to pick up your brochure.
2. A panel for each volcano you researched with:
 - type of volcano
 - location
 - famous date of eruption
 - current status of volcano
 - interesting facts
 - colorful picture
3. A works cited page to show where you found your information.
 - Information needs to be cited from *at least one book and one Internet source* for each volcano.
4. Spelling and neatness will also be included in your overall product grade.

What is a volcano? (This should be MORE than just a definition. A description is needed for your ELA informative writing piece.)

For your ELA informative writing piece:
 (you may attach your science notes instead of rewriting the information,
 if you would like.

**Brief explanation
 of how an
 eruption occurs.**

Four main types of volcanoes

Composite:

Description-

Characteristics-

Lava Dome:

Description-

Characteristics-

Shield:

Description-

Characteristics-

Cinder Cone:

Description-

Characteristics-

+ Positive Results of a Volcano +

- Negative Results of a Volcano -

Name _____ Date _____ Color _____ # _____

Works Cited: Volcano Brochure

Students must use at least two Internet sources and one book source.

What is a volcano?

1. Title of **Internet** article: _____

Web Address: _____

2. Title of **Book**: _____

Author's Name _____

Mt. St. Helens

1. Title of **Internet** article: _____

Web Address: _____

2. Title of **Book**: _____

Author's Name _____

Mount Vesuvius

1. Title of **Internet** article: _____

Web Address: _____

2. Title of **Book**: _____

Author's Name _____

Krakatoa

1. Title of **Internet** article: _____

Web Address: _____

2. Title of **Book**: _____

Author's Name _____

Name _____ Date _____ Color _____ # _____

Volcano Research Brochure Rubric

You will be graded on the following overall components:

A colorful front cover that makes people want to pick up your brochure	/1 point
Neatness and effort in presentation	/2 points
Correct spelling and punctuation appropriate for 4 th grade	/2 points
A colorful back cover including some aspect of volcanoes	/1 point
Works cited page what includes at least one Internet source and one book source for each volcano	/6 points

You will be graded on the following parts of each volcano:

<p>Mt. St. Helens*</p> <ul style="list-style-type: none"> • type of volcano • location • famous date of eruption • current status of volcano • interesting facts • colorful picture 	/6 points
<p>Mount Vesuvius*</p> <ul style="list-style-type: none"> • type of volcano • location • famous date of eruption • current status of volcano • interesting facts • colorful picture 	/6 points
<p>Krakatoa*</p> <ul style="list-style-type: none"> • type of volcano • location • famous date of eruption • current status of volcano • interesting facts • colorful picture 	/6 points

*any items missing will be circled under each volcano

Total: _____/30 points

Unscramble these

Words!

EASY

HARD

OCYLOAN

Rngi / to life

Answer:

Answer:

terpu

agma

Answer:

Answer:

ntve

tarnaom

Answer:

Answer:

Did you get them

RIGHT?!

+. .

~ .

~ .

~ .

~ .

~ .



By



Mt. Saint Helens



Mt. Saint Helens is a composite volcano located in the Cascade Mountains of Seattle, Washington. It's known for its famous eruption on May 18, 1980. Hot ash from the 1980 eruption started forest fires, melted snow from the upper parts of the mountains, and as a result of that, mud and floods occurred and washed away bridges. This was the first volcano in the USA outside of Alaska to erupt since 1917. So now it's dormant.

Mt. Vesuvius

Mt. Vesuvius is a composite volcano located in Southern Italy. It's known for its famous eruption in AD 79. Thousands of people died when lava, ash, and mud buried the city of Pompeii, Herculaneum, and Stabiae. After that the cities were forgotten until an archaeologist began digging up their ruins in the 1700's. Mt. Vesuvius was formed about 200,000 years ago. The last major eruption occurred in 1944. Mt. Vesuvius is now active.



Mt. Krakatoa



Mt. Krakatoa is a composite volcano located in Indonesia. It's known for its famous eruption on August 27, 1883. One of the deadliest volcanic events to ever occur was the 1883 eruption. The explosion was so great, it triggered a tsunami that killed over 36,000 people. Krakatoa is a part of the Ring of Fire, a series of volcanoes in the Pacific Ocean. Krakatoa lies between two Indonesian Islands. This volcano is now dormant.

Contents

page 1 Mt. St. Helens

page 2 Mount Vesuvius

page 3 Krakatoa

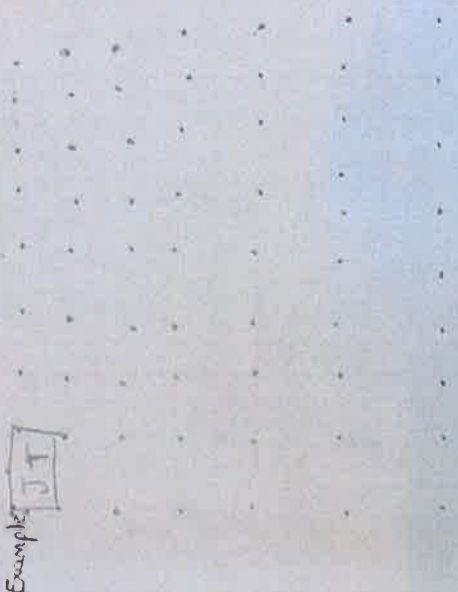
Back page Games



YES OR NO

Games

Example:



Score: player 1 player 2

Tic-Tack-Toe
Volcano

#

#

#

Score
player 1 player 2

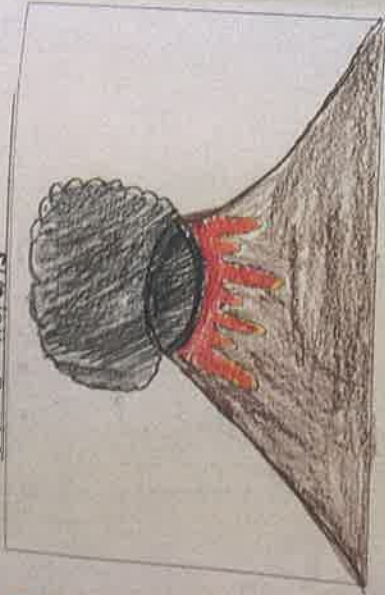


Cool Facts about Volcanoes!



By:

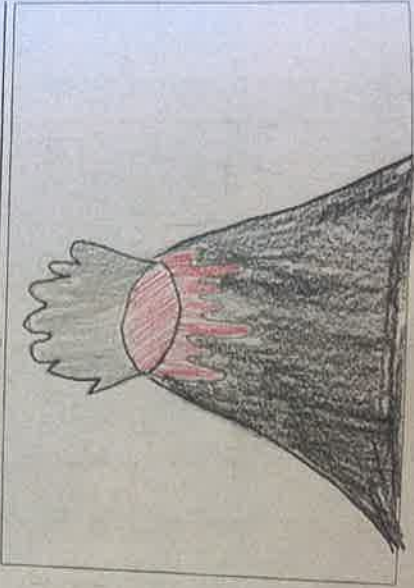
Mt. St. Helens



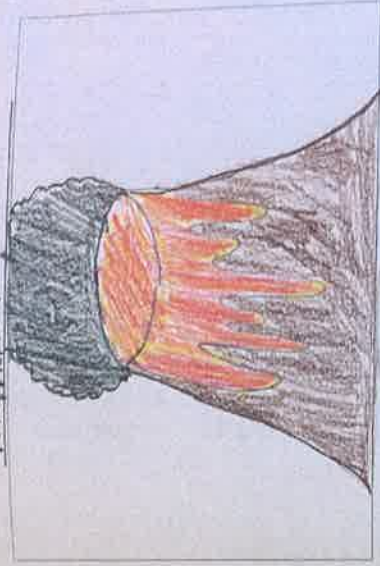
Mt. St. Helens was an active composite volcano. On the morning of May 18 an earthquake caused a landslide on the north side of the mountain. This was followed by a blast of hot ash and steam that was thrown about 15 miles from the volcano. The blast was as hot as 660°F. It reached speeds of 300 miles per hour. It was one of the greatest volcanic explosions ever recorded in North America. Some of the Native Americans who lived around Mount Saint Helens called it Louwala-Cloughbor-sm-aking Mountain. Mount Saint Helens has erupted many times over the past 4,500 years.

Mount Vesuvius

Mount Vesuvius is both active and dormant volcano. Mount Vesuvius is also a composite volcano. Mount Vesuvius erupted on AD 79. Mount Vesuvius stands about 4,200 feet high but its height changes after each major eruption. A high ridge known as Mount Somma partly surrounds the main cone of Vesuvius. Thousands of people died when lava, ashes, and mud buried the cities of Pompeii, Herculaneum, and Stabiae. The last major eruption occurred in 1944. The first recorded eruption of Mount Vesuvius took place about 2,000 years ago.



Krakatoa



Krakatoa active composite volcano. Krakatoa erupted in August 27 1883. Few people died from the actual eruption. However it did cause a series of tsunamis recorded as far away as South America and Hawaii. The largest tsunami destroyed 300 towns and villages and killed 36,000 people. By the morning August 28 Krakatoa was quiet. This explosion remains the loudest sound in recorded history. The discharge from Krakatoa was so great that ash fell over an area of some 300,000 square miles.