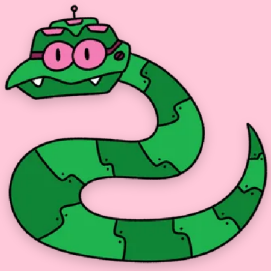
SCIENCE · VOLCANOES AND EARTHQUAKES · GRADES 2–5

Parts of a Volcano



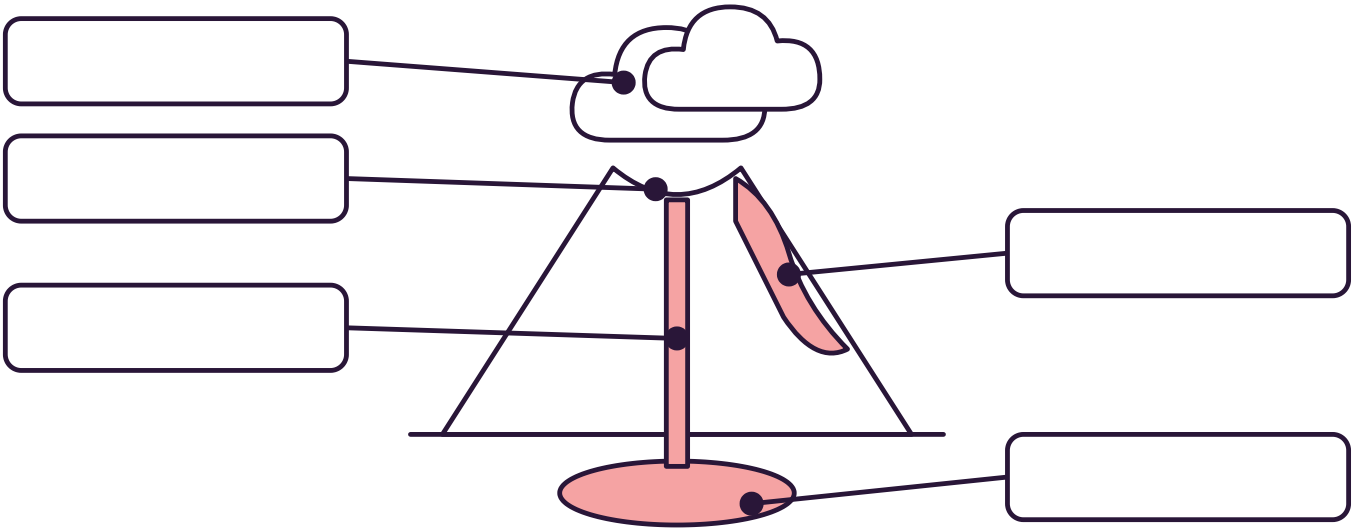
Label the ash cloud, crater, vent, lava and magma chamber, then fill in three sentences about magma and lava.

Name: _____ **Date:** _____

Word bank

ash cloud | crater | vent | lava | magma chamber | magma | rock

1. Label the volcano.



2. Fill in the blanks.

1. Melted rock under the ground is called _____.
2. When melted rock comes out of a volcano, it is called _____.
3. When lava cools, it hardens into _____.

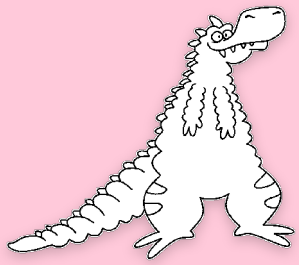
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SCIENCE · VOLCANOES AND EARTHQUAKES · GRADES 2–5

Volcanoes: True or False?

Eight volcano facts to mark true or false, then fix two false ones.

Name: _____ **Date:** _____



Circle True or False.

Magma is melted rock under the ground.	True	False
Lava is magma that reaches the surface.	True	False
Every volcano is erupting right now.	True	False
Some volcanoes are under the ocean.	True	False
The Hawaiian Islands were made by volcanoes.	True	False
Volcanic ash is soft and fluffy like smoke.	True	False
Mount Everest is a volcano.	True	False
Scientists who study volcanoes are called volcanologists.	True	False

Pick two false sentences and fix them so they are true.

_____

_____

_____

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SCIENCE · VOLCANOES AND EARTHQUAKES · GRADES 1–4

Earthquake Safety



Color the safe choices and put an X on the unsafe ones, then find the safest spot in your classroom.

Name: _____ **Date:** _____

When the ground shakes: **Drop** to your hands and knees, **Cover** your head and neck, and **Hold On** until the shaking stops.

Color the safe choices. Put an X on the unsafe ones.

drop to your hands and knees	run outside while it shakes	cover your head and neck
ride in an elevator	hold on to a sturdy desk	stand next to a tall bookcase
stay away from windows	stand at a window to watch	stay put until the shaking stops

Where is the safest place in your classroom to drop, cover and hold on?

_____

_____

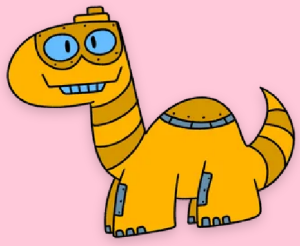
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SCIENCE · VOLCANOES AND EARTHQUAKES · GRADES 4–5

Earth's Moving Plates

Fill in six sentences about plates, earthquakes, mountains and the Ring of Fire, then answer two questions.

Name: _____ **Date:** _____



Earth's crust is cracked into giant pieces called **plates**. They float on hot, soft rock and move all the time, a tiny bit each year.

Word bank

plates · slowly · earthquake · mountains · volcanoes · Ring of Fire

1. Fill in the blanks.

1. Earth's crust is broken into huge pieces called _____.
2. They move very _____, about as fast as your fingernails grow.
3. When two plates slip suddenly, the ground shakes in an _____.
4. Plates pushing together for millions of years can build _____.
5. Melted rock can rise up where plates meet and make _____.
6. Many volcanoes circle the Pacific Ocean in the _____.

2. Circle the answer.

Which tool measures earthquakes?

seismograph · thermometer · rain gauge

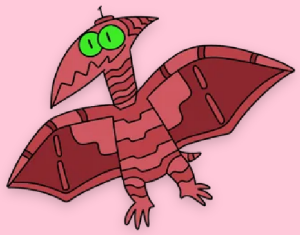
Are the plates moving right now?

yes · no

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SCIENCE · VOLCANOES AND EARTHQUAKES · GRADES 1–5

Baking Soda Volcano



An experiment: change the amount of vinegar, record how long the volcano bubbles and explain what made the bubbles.

Name: _____ **Date:** _____

You need: a cup on a tray, baking soda, vinegar, a spoon, a measuring cup, dish soap and safety goggles. **Do it:** put 2 spoonfuls of baking soda and a drop of dish soap in the cup. Pour in the vinegar and time the bubbles. Wash out the cup and try again with more vinegar.

I predict that more vinegar will _____

Try	Baking soda	Vinegar	How long it bubbled (seconds)	How high it rose
1				
2				
3				

What happened when you used more vinegar?

_____

_____

The bubbles are a gas. Where do you think the gas came from?

_____

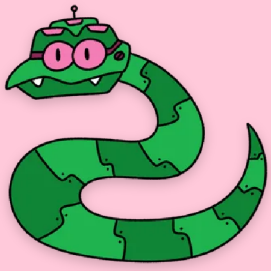
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ANSWER KEY · VOLCANOES AND EARTHQUAKES · GRADES 2–5

Answer Key: Parts of a Volcano

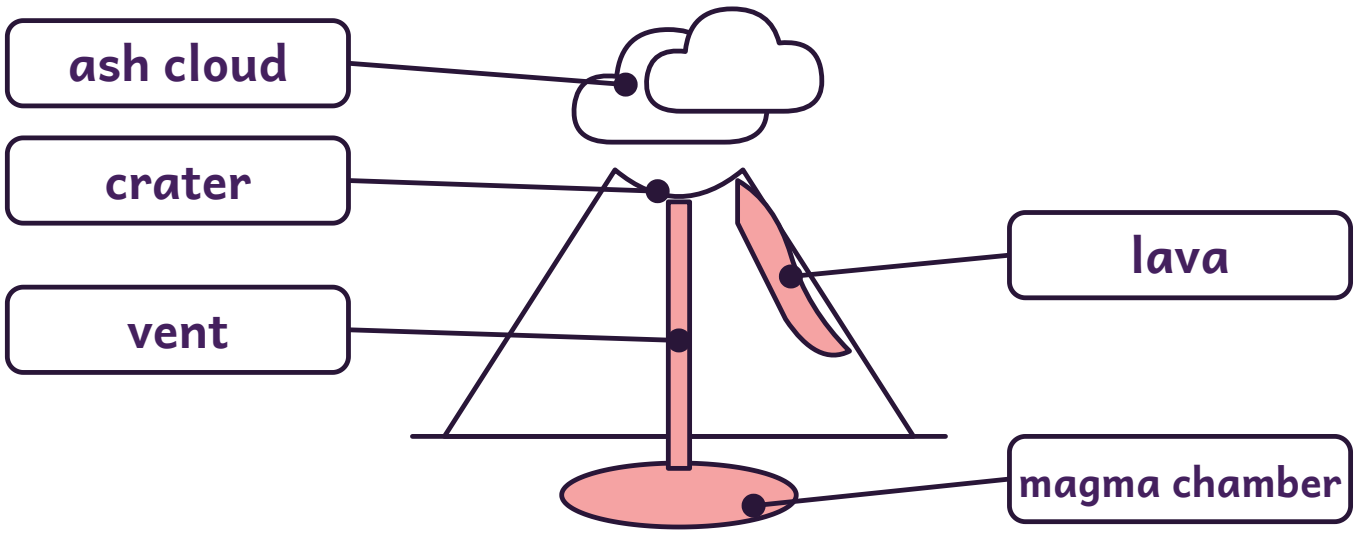
Answers for grown-ups. Some questions have more than one good answer.



Word bank

ash cloud · crater · vent · lava · magma chamber · magma · rock

1. Label the volcano.



2. Fill in the blanks.

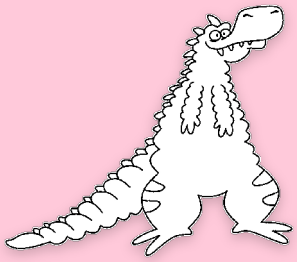
1. Melted rock under the ground is called **magma**.
2. When melted rock comes out of a volcano, it is called **lava**.
3. When lava cools, it hardens into **rock**.

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ANSWER KEY · VOLCANOES AND EARTHQUAKES · GRADES 2–5

Answer Key: Volcanoes: True or False?

Answers for grown-ups. Some questions have more than one good answer.



Circle True or False.

Magma is melted rock under the ground.	**True**	False
Lava is magma that reaches the surface.	**True**	False
Every volcano is erupting right now.	True	**False**
Some volcanoes are under the ocean.	**True**	False
The Hawaiian Islands were made by volcanoes.	**True**	False
Volcanic ash is soft and fluffy like smoke.	True	**False**
Mount Everest is a volcano.	True	**False**
Scientists who study volcanoes are called volcanologists.	**True**	False

Pick two false sentences and fix them so they are true.

Art © Kevin Coulston

ANSWER KEY · VOLCANOES AND EARTHQUAKES · GRADES 1–4

Answer Key: Earthquake Safety

Answers for grown-ups. Some questions have more than one good answer.



When the ground shakes: **Drop** to your hands and knees, **Cover** your head and neck, and **Hold On** until the shaking stops.

Color the safe choices. Put an X on the unsafe ones.

drop to your hands and knees	~~run outside while it shakes~~	cover your head and neck
~~ride in an elevator~~	hold on to a sturdy desk	~~stand next to a tall bookcase~~
stay away from windows	~~stand at a window to watch~~	stay put until the shaking stops

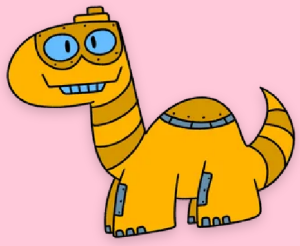
Where is the safest place in your classroom to drop, cover and hold on?

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ANSWER KEY · VOLCANOES AND EARTHQUAKES · GRADES 4–5

Answer Key: Earth's Moving Plates

Answers for grown-ups. Some questions have more than one good answer.



Earth's crust is cracked into giant pieces called **plates**. They float on hot, soft rock and move all the time, a tiny bit each year.

Word bank

plates · slowly · earthquake · mountains · volcanoes · Ring of Fire

1. Fill in the blanks.

1. Earth's crust is broken into huge pieces called **plates**.
2. They move very **slowly**, about as fast as your fingernails grow.
3. When two plates slip suddenly, the ground shakes in an **earthquake**.
4. Plates pushing together for millions of years can build **mountains**.
5. Melted rock can rise up where plates meet and make **volcanoes**.
6. Many volcanoes circle the Pacific Ocean in the **Ring of Fire**.

2. Circle the answer.

Which tool measures earthquakes?

seismograph · thermometer · rain gauge

Are the plates moving right now?

yes · no

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