Volcano

Mastery 1 – Unit 14
Vocabulary and Reading
Pages 106 and 107

afaq
Language Center



/krak/



Crack

(Split, break, fracture)

A crack appeared in the volcano after the earth quick.



/kwɔːts/
Quartz



/ˈmagmə/

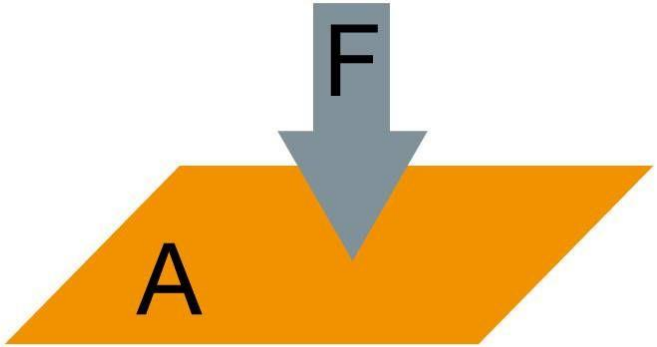


Magma

(Hot fluid out of a volcano)

When magma hits the seawater, explosion occurs.

$$Pressure\ (p) = \frac{Force\ (F_n)}{Area(A)}$$

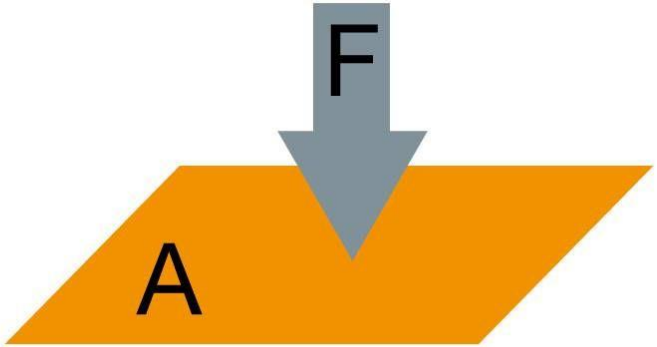


/ˈprɛʃə/

Pressure

(Force, stress, load, compression)

$$Pressure\ (p) = \frac{Force\ (F_n)}{Area(A)}$$



Pressure caused the volcano to erupt.



/ˈpʌmɪs/



Pumice

(A very light volcanic rock)

Pumice is very light comparing to its size.



/ˈlɑːvə/



Lava

(Liquid rock)

Lava was running down the volcano after the eruption.



/ˈgranɪt/



Granite

(a very hard, granular, crystalline rock)

Granite is used a lot in housing industry.



/ˈbas(ə)lt/



Basalt

(A dark fine-grained volcanic rock)



/ˈməʊlt(ə)n/



Molten

(Liquid, fluid, melted, flowing)

Lava is formed from molten rocks.



/ˈbʌb(ə)l/

Bubble



/əbˈsɪdɪən/



Obsidian

(a hard, dark, glasslike volcanic rock)



/wɛː/

/daʊn/



Wear Down

(Overcome someone or something)

They wore down their opponents to win the marathon.



/ɪˈrʌpt/



Erupt

(Emit, discharge, eject, blow up)

Hot lava erupted from the volcano.

Complete the sentences with the words given.

magma – Pumice – crack – Pressure - Lava

- A …… appeared in the volcano after the earth quick.
- When …… hits the seawater, explosion occurs.
- …… caused the volcano to erupt.
- …… is very light comparing to its size.
- …… was running down the volcano after the eruption.

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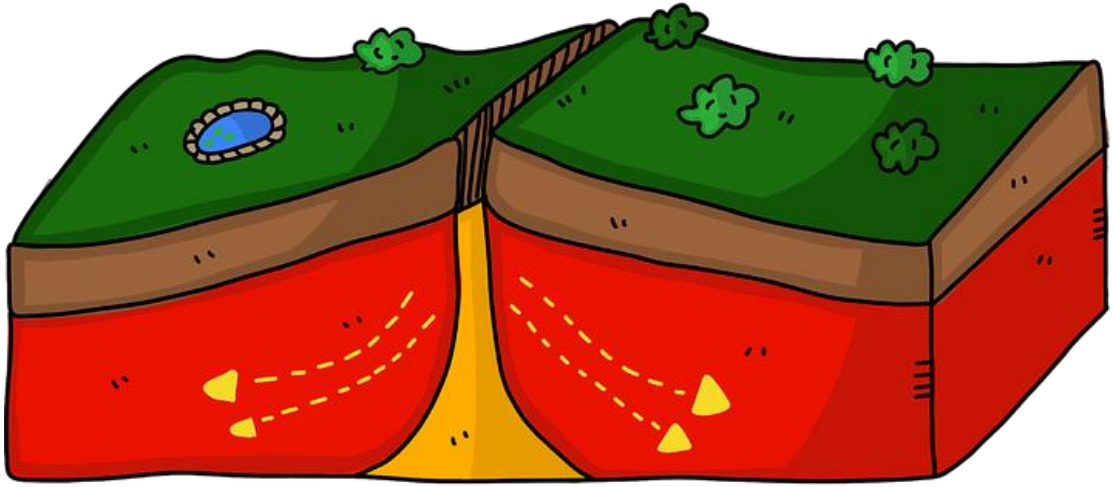
Complete the sentences with the words given.

wore down – Granite – Lava - erupted

- …… is formed from molten rocks.
- They …… their opponents to win the marathon.
- Hot lava …… from the volcano.
- …… is used a lot in housing industry.

1 These words are all related to volcanoes. Which refer to kinds of rocks? Check the meaning of any words you don't know in a dictionary.

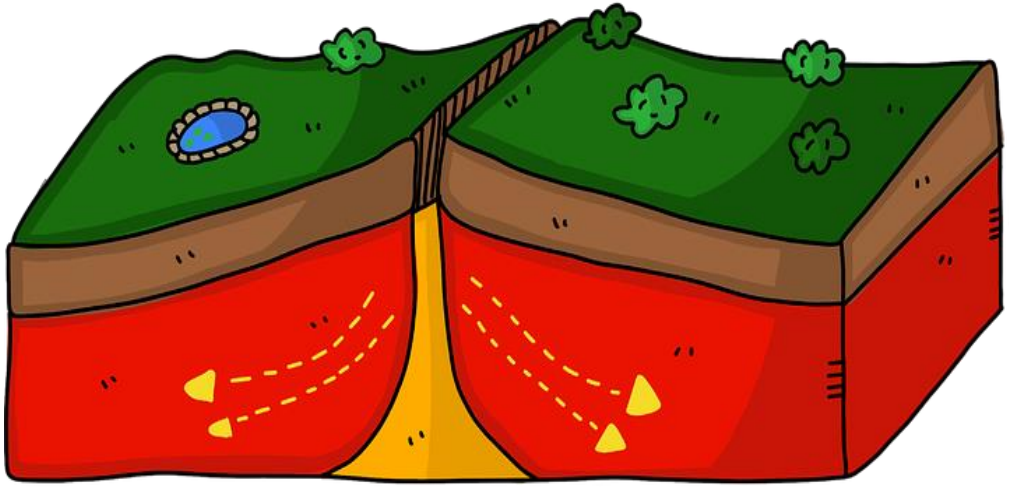
crack quartz magma pressure pumice lava granite
basalt molten bubble obsidian wear down erupt



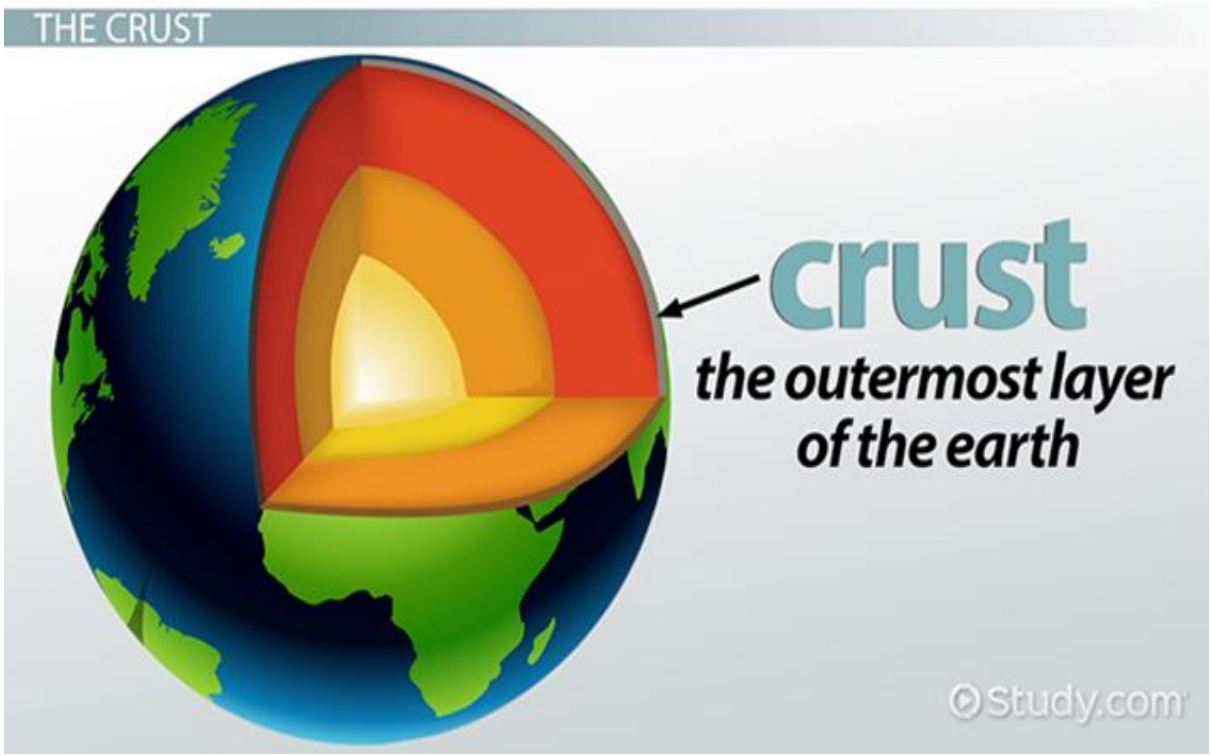
/pleɪt/

Plates

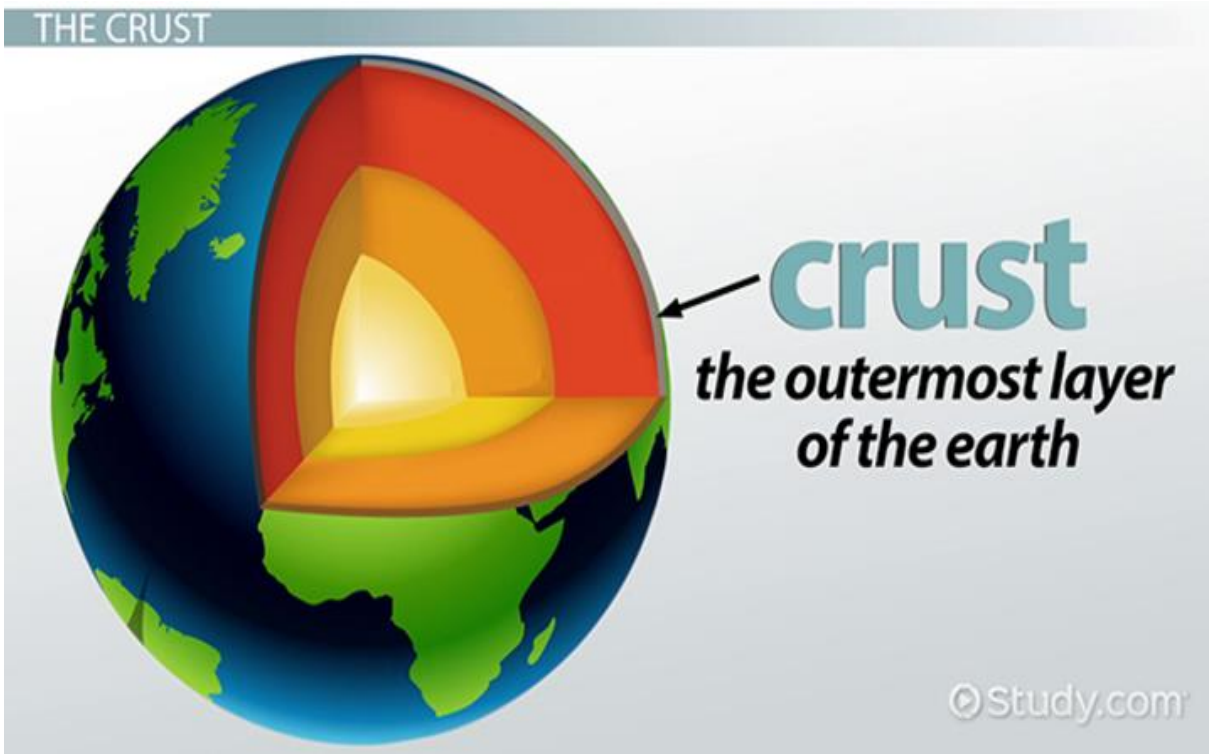
(each of the several rigid pieces of the earth's which make up the earth's surface.)



Scientists have found new information from the Pacific Ocean plate.



/krʌst/



Crust

(Covering, layer, coating, outside)

Many changes has happened to the earth’s crust.

Weak spot

(A place or point at which something is weak or vulnerable)

His weak point was his family.





/skwi:z/



Squeeze

(Compress, press, crush, force)

She squeezed the juice out of the lemon.



/aʃ/



Ash

(the mineral component of an organic substance left after burning)

Coal contains higher levels of ash than premium fuels.

Complete the sentences with the given words.

ash – weak point – plate – squeezed - crust

- Scientists have found new information from the Pacific Ocean …… .
- Many changes has happened to the earth's …… .
- His …… was his family.
- She …… the juice out of the lemon.
- Coal contains more …… than premium fuels.

Reading

READING

2 Read the article about volcanoes. What role did volcanoes possibly have in the formation of land on the Earth?

Reading

3 Match the headings to the paragraphs.

1 Volcanoes and their rocks

2 How do volcanoes form?

3 Volcanoes before life began

4 Read the article again and answer the questions.

1 Where do volcanoes occur? Volcanoes occur where the plates in the Earth's crust have cracks or weak spots in them.
2 What are the hot melted rocks called?
3 How were islands formed billions of years ago?
4 Why is the ash dangerous?
5 How are volcanoes useful after they have erupted?
6 What is obsidian used for today?

Summarize the text.

Volcanoes

a _____
Volcanoes occur where the plates in the Earth's crust have cracks or weak spots in them. The very hot melted rocks, which lie deep beneath the Earth's surface, are under a lot of pressure, and they bubble up and try to squeeze out of any holes. The hot melted rocks are called magma. When a volcano erupts, the magma forces its way up through the surface and spills out as lava. Pieces of rock and ash are often thrown out with the lava.

b _____
About four and a half billion years ago, which was just after our planet was formed, there were probably many more volcanoes than there are now, and they erupted more often. Volcanoes may have contributed toward the way the Earth looks now. When volcanoes erupted and rocks appeared, these rocks covered previous ones from earlier eruptions, and the rocks then formed the islands that we see today.

c _____
Volcanoes can be very dangerous to people when they are in the process of erupting. The hot lava can destroy towns and kill people. The ash can crush houses and plants. However, after the eruption, volcanoes bring many useful things. The ash and lava make the ground very good for farming. The magma that shoots out of the volcanoes cools into different kinds of solid rocks like lava, quartz, pumice, granite, and basalt. When these rocks wear down and become earth, they are very good for growing plants. A long time ago, farmers used the obsidian (volcanic glass) for their tools. Even today, obsidian is still used to make knives for medical operations.

Speaking

- What do you think about studying volcanoes?
- What do we get from studying volcanoes?
- Would you like to study volcanoes?

Analyze the text.

Volcanoes

a _____

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Volcanoes can be very dangerous to people when they are in the process of erupting. The hot lava can destroy towns and kill people. The ash can crush houses and plants. However, after the eruption, volcanoes bring many useful things. The ash and lava make the ground very good for farming. The magma that shoots out of the volcanoes cools into different kinds of solid rocks like lava, quartz, pumice, granite, and basalt. When these rocks wear down and become earth, they are very good for growing plants. A long time ago, farmers used the obsidian (volcanic glass) for their tools. Even today, obsidian is still used to make knives for medical operations.

5 Complete the labels on the diagram of the volcano with the words from the box.

crust lava cracks plates rocks ash magma



Homework

Prepare a presentation about a famous / big volcano eruption.