Worksheets:

Section 1:

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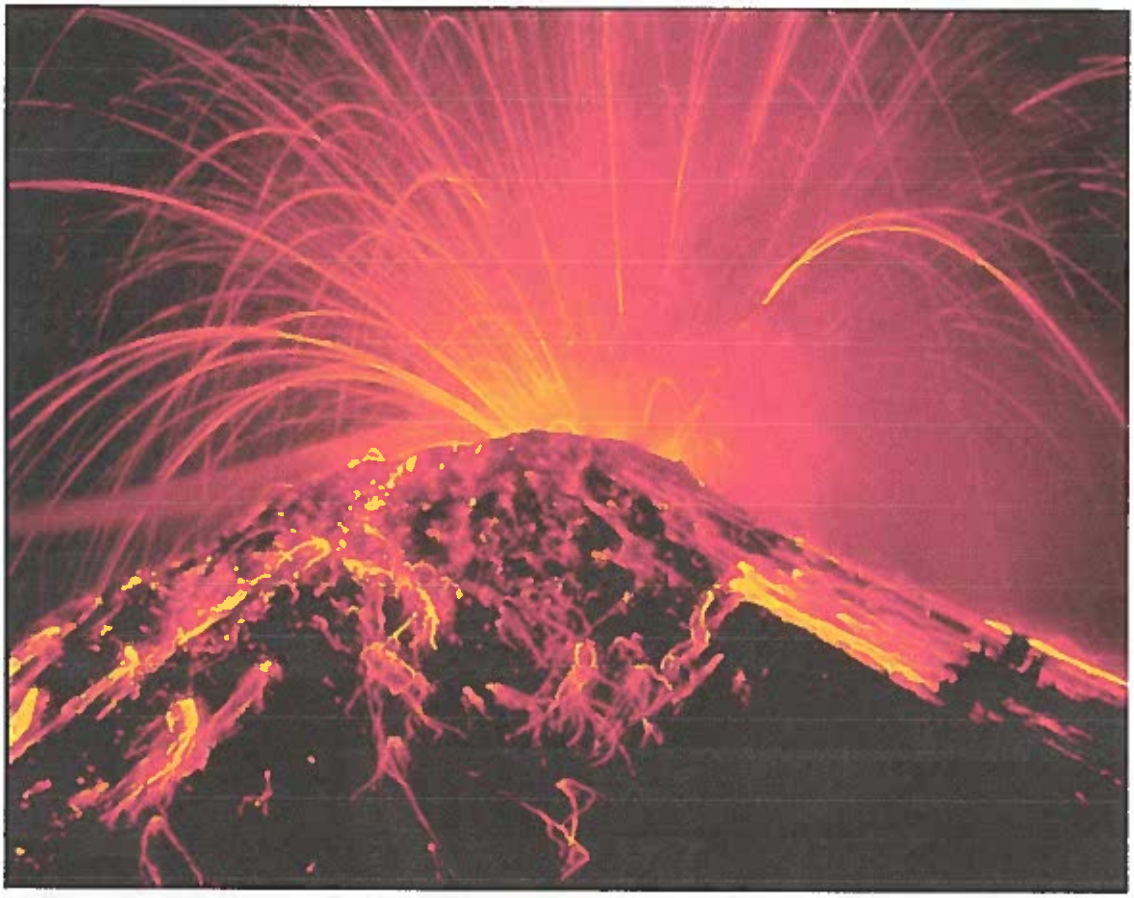
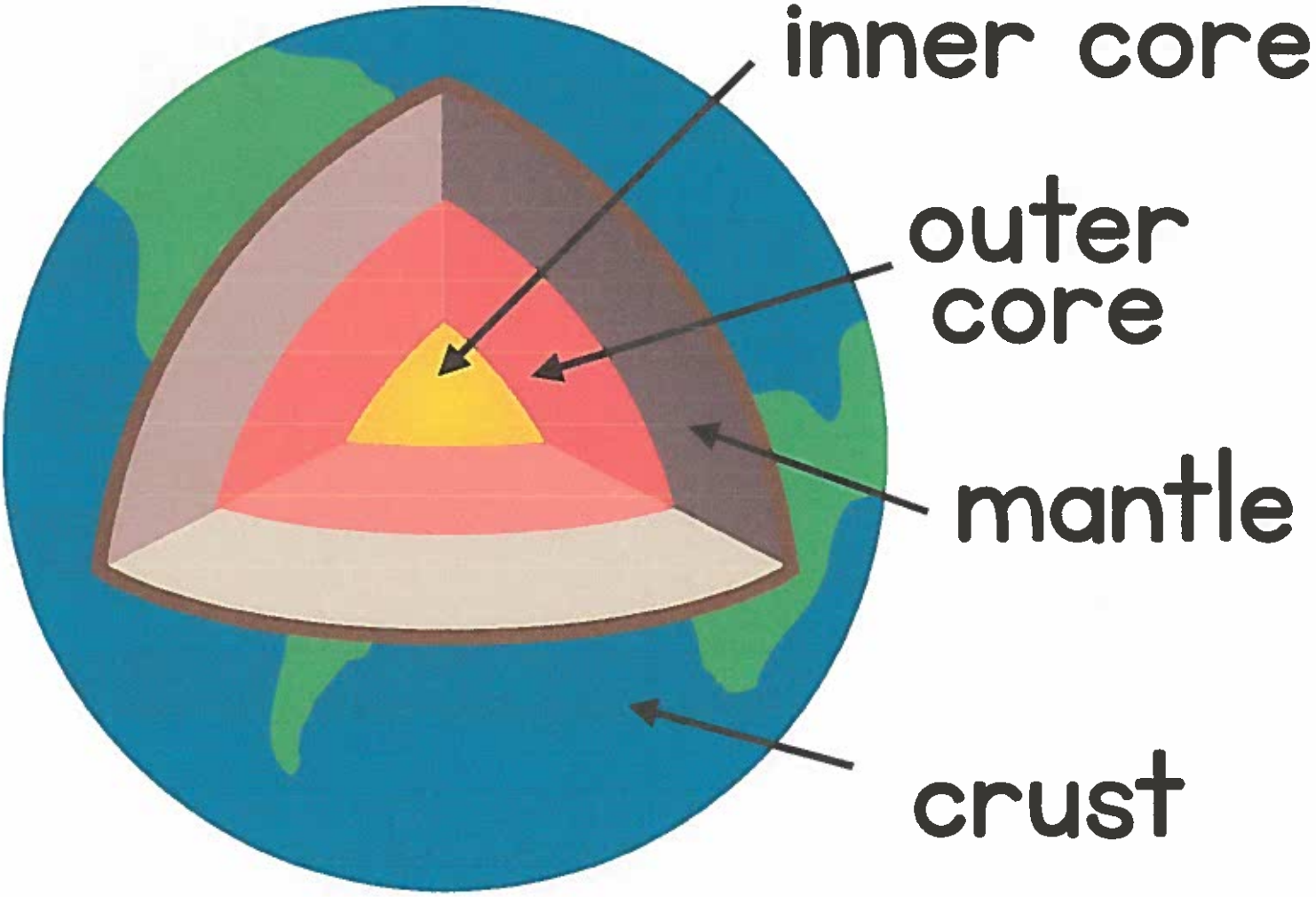
Section 2:

The following pages are pictures is story format are from Kristen Smith lessons on landforms.

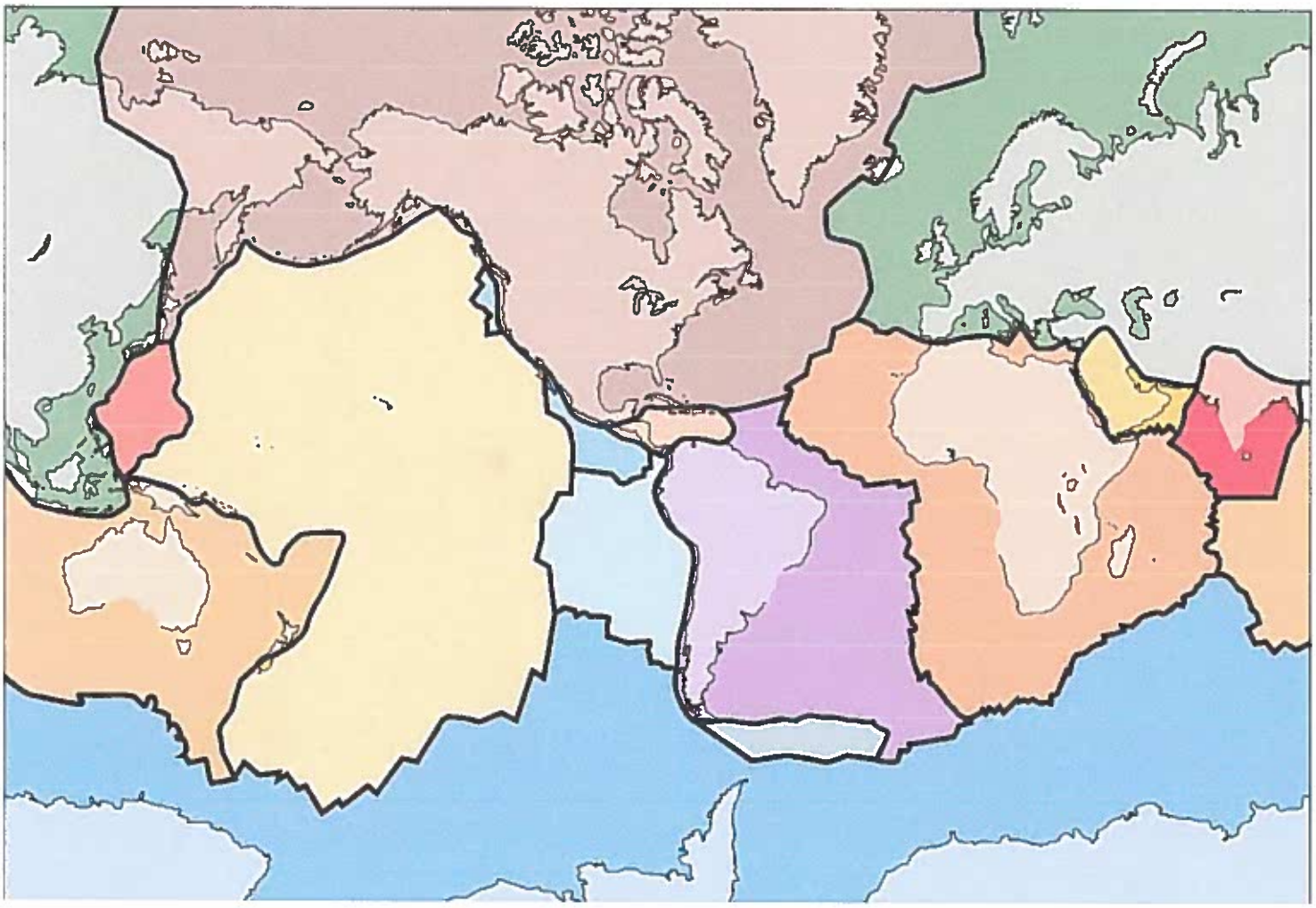
Section 1



The Earth is made of **layers.**



The **crust**



is broken

into **plates**.

The Earth's plates float on the **mantle.**

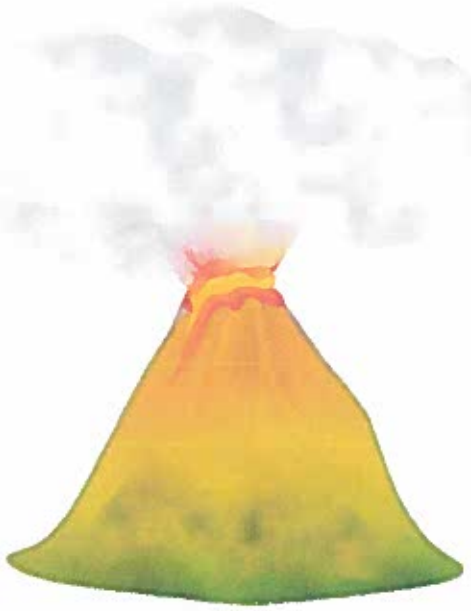
The Earth is **always changing.**

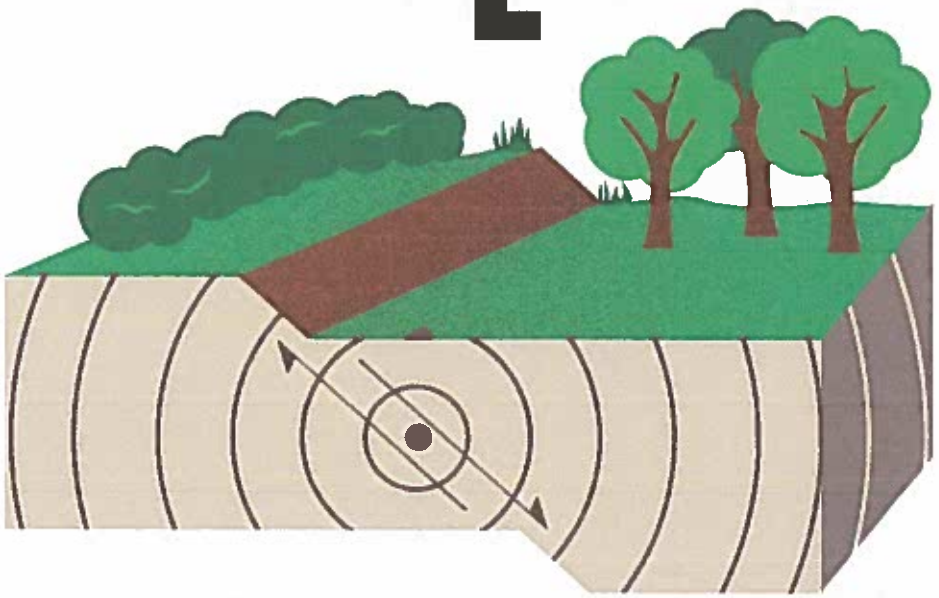
Changes can be

fast or slow.

Wind, water & ice cause **erosion** of rocks and soil.

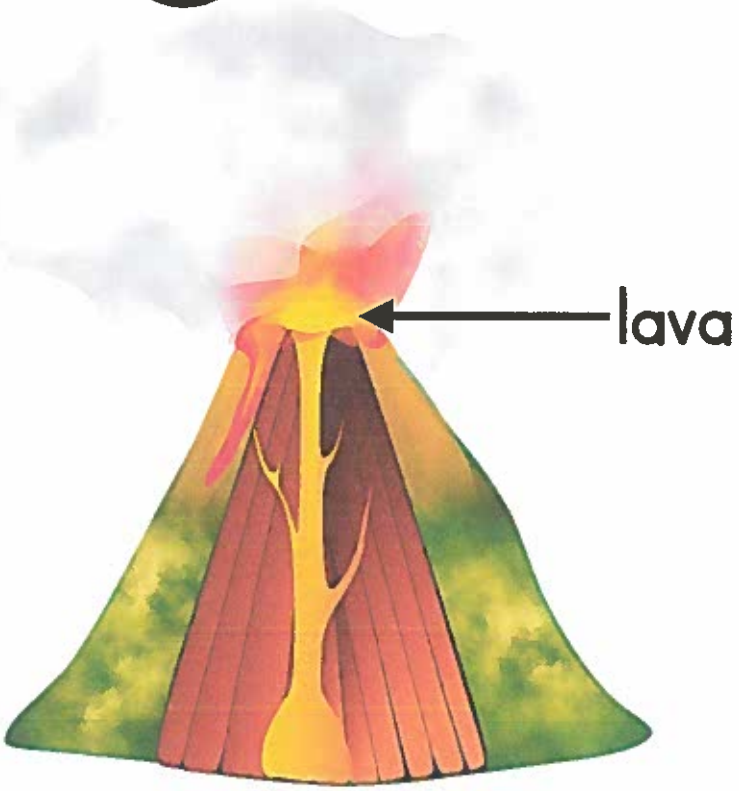
Earth's moving plates make **volcanoes & earthquakes.**



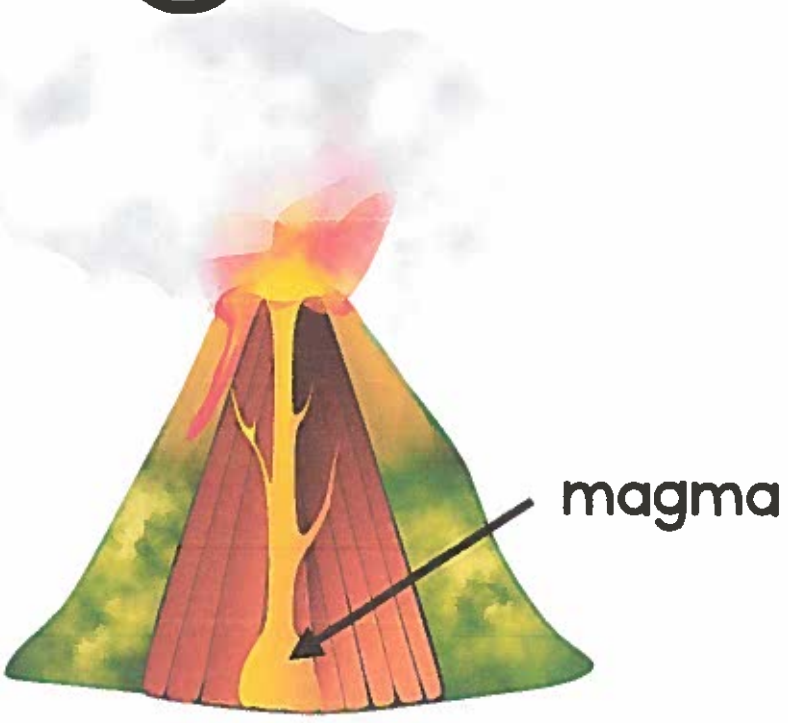


Lava

is melted rock above the ground.



Magma
is melted
rock under
the ground.

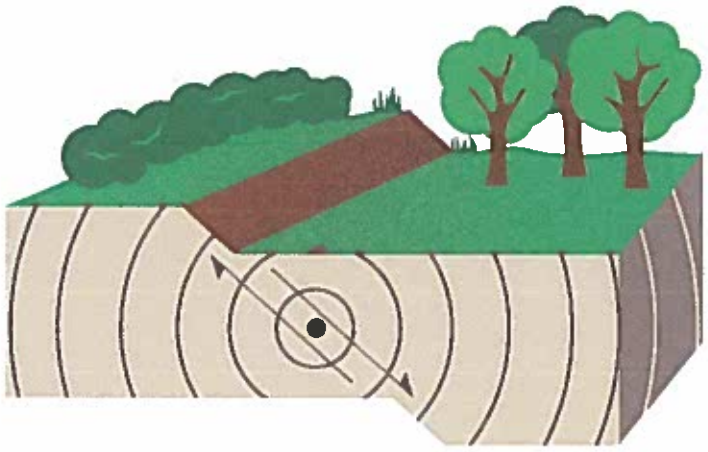


cinder cone volcano

volcano with a cone that does not get very tall

inner core

inner layer of the Earth



sudden shaking of the Earth

earthquake

the moving away of the soil or rocks by water, wind, and ice

erosion

eruption

when lava comes out of a volcano

fault

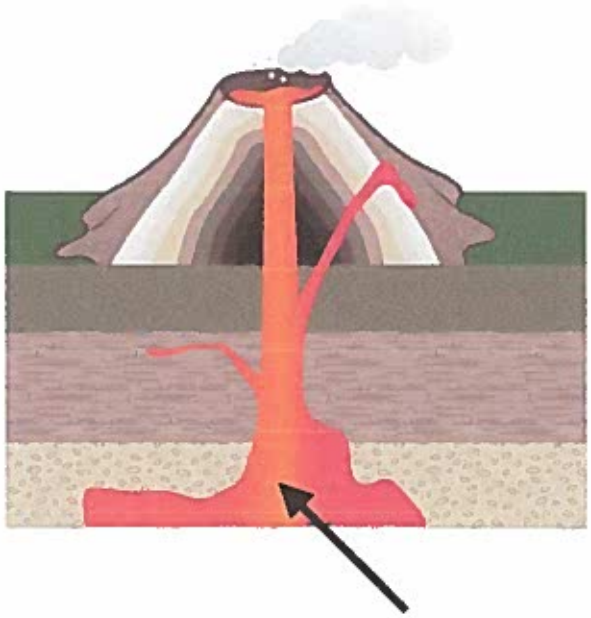
where the rocks break along the plate boundary

lava

melted rock above the Earth's surface

magma

melted rock under the Earth's surface

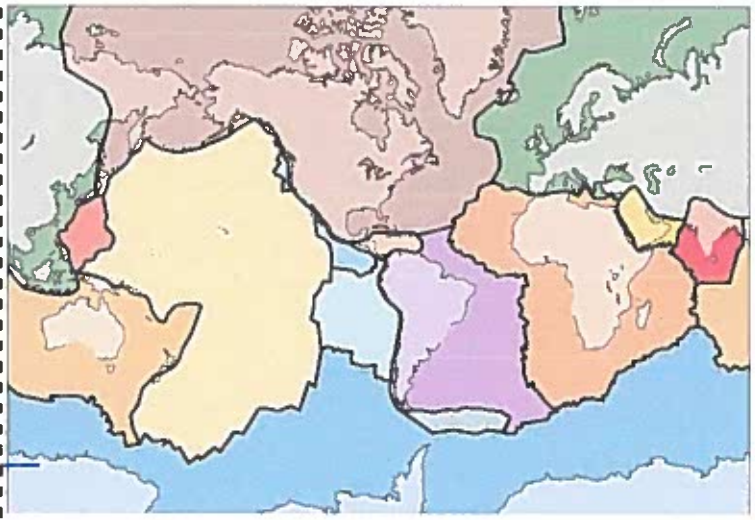


magma chamber

pool of magma deep underground

mantle

middle layer of Earth



plates

pieces of the Earth's crust; float on the mantle

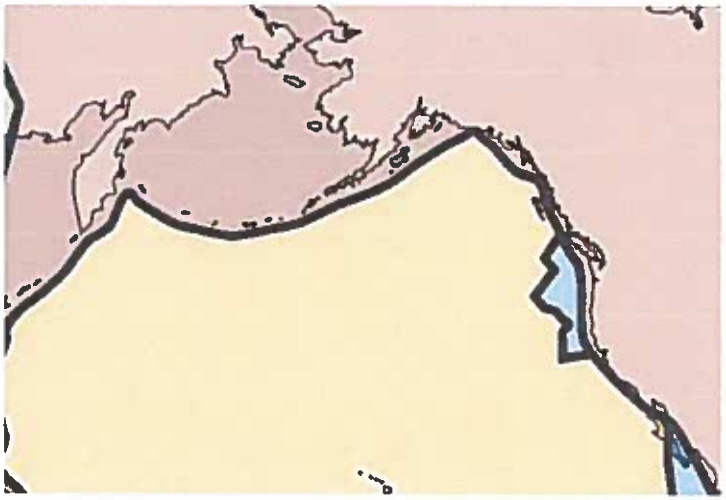


plate boundary

where two plates come together

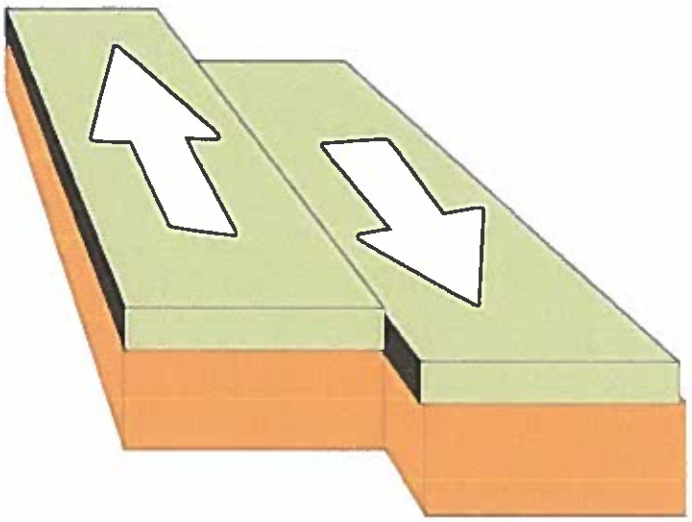


plate tectonics

the movement of plates on the mantle

shield volcano

flat, rounded volcano with thin, runny lava

stratovolcano

volcano with a tall, steep cone with thick lava

vent

tube inside the volcano through which magma rises

outer core

layer of the Earth that is around the inner core

cinder cone volcano

volcano with a cone that does not get very tall

inner core

inner layer of the Earth

crater

hole at the top of the volcano

crust

outer layer of Earth

earthquake

sudden shaking of the Earth

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layer of the Earth that is around the inner core

Watch a Video

Use your device to watch
Earthquake

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Earthquake

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Earthquake

Watch a Video

What happens when plates get stuck?

#5

Earthquake

Watch a Video

#7

Earthquake

Watch a Video

#6

Earthquake

Watch a Video

#8

Earthquake

Watch a Video

What happens during an earthquake?

#1

Earthquake

Watch a Video

What are the edges of the plates like?

#3

Earthquake

Watch a Video

What are the Earth's plates?

#2

Earthquake

Watch a Video

What is a fault?

#4

Earthquake

#1 Watch a Video

What happens during an earthquake?

a. The crust stops moving.
b. The plates get stuck.
c. The ground shakes.
d. Rocks are made.

Earthquake

#2 Watch a Video

What is crust?

a. The solid ball of Earth.
b. The outside layer of the Earth.
c. The middle of the Earth.
d. The sky over the Earth.

Earthquake

#3 Watch a Video

What is true about the Earth's plates?

a. Pieces of the crust
b. Fit together like puzzle pieces
c. Both a and b
d. Neither a nor b

Earthquake

#4 Watch a Video

What are the edges of the plates like?

a. Bumpy
b. Smooth
c. Straight
d. Clean

Earthquake

#5 Watch a Video

What is a fault?

a. The center of the Earth
b. Where the clouds make rain
c. Where earthquakes never happen
d. Where the plates touch

Earthquake

#6 Watch a Video

Earthquake

#7 Watch a Video

Earthquake

#8 Watch a Video

Watch a Video

Use your computer to watch
All About Volcanoes

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All About Volcanoes

Watch a Video

What is magma called when it has reached the air?

#1

All About Volcanoes

Watch a Video

How does a volcano become a mountain?

#3

All About Volcanoes

Watch a Video

What happens when lava cools down?

#2

All About Volcanoes

Watch a Video

What is the vent?

#4

All About Volcanoes

Watch a Video

What is the crater?

#5

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Watch a Video

#7

All About Volcanoes

Watch a Video

#6

All About Volcanoes

Watch a Video

#8

All About Volcanoes

#1 Watch a Video

What is magma called when it reaches the air?

a. Lava
b. Crater
c. Vent
d. Rock

All About Volcanoes

#2 Watch a Video

What does lava become when it cools down?

a. Crater
b. Magma
c. Rock
d. Vent

All About Volcanoes

#3 Watch a Video

How does a volcano become a mountain?

a. It started out as a tall mountain.
b. Layers of lava cooled and hardened.
c. Hot magma swelled up to make it big.
d. It doesn't. Volcanoes do not become mountains.

All About Volcanoes

#4 Watch a Video

What is the vent?

a. Layers of rock piled up
b. Hole at the top of the volcano
c. Chamber of magma deep inside
d. Tube in the middle of the volcano

All About Volcanoes

#5 Watch a Video

What is the crater?

a. Layers of rock piled up

b. Hole at the top of the volcano

c. Chamber of magma deep inside

d. Tube in the middle of the volcano

All About Volcanoes

#6 Watch a Video

All About Volcanoes

#7 Watch a Video

All About Volcanoes

#8 Watch a Video

Read

Changes in the Parks

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Changes in the Parks

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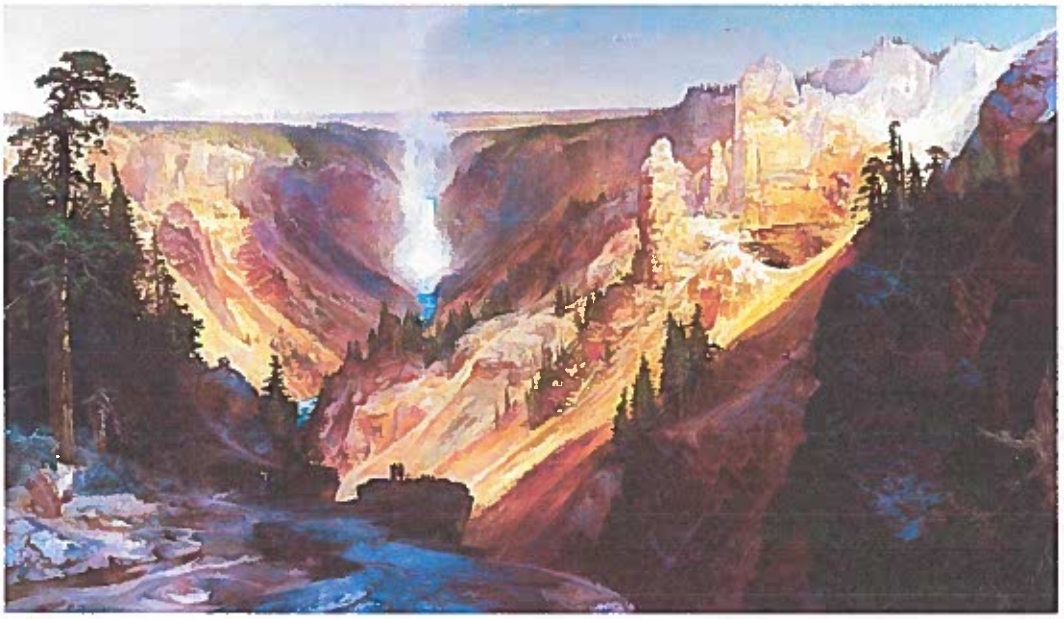
Read

Changes in the Parks

The Earth is changing all the time. Mountains wear down. Valleys are made. Rocks change shape. How does all this happen? Nature does it. Water, wind, and ice help change the Earth.

Forces of nature wear away the Earth. This is called erosion. Erosion can happen quickly or slowly. All types of erosion change the Earth. These changes can be seen in the United States' National Parks.

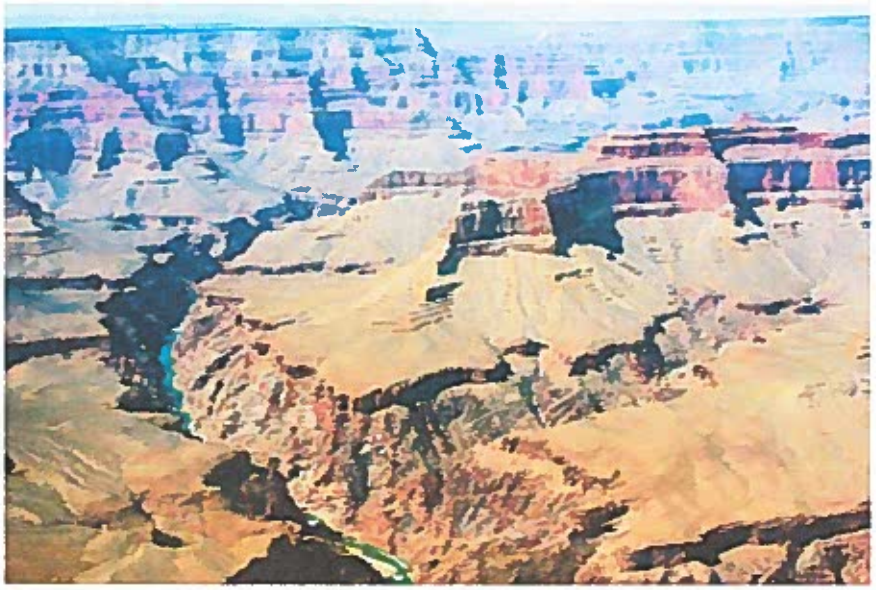


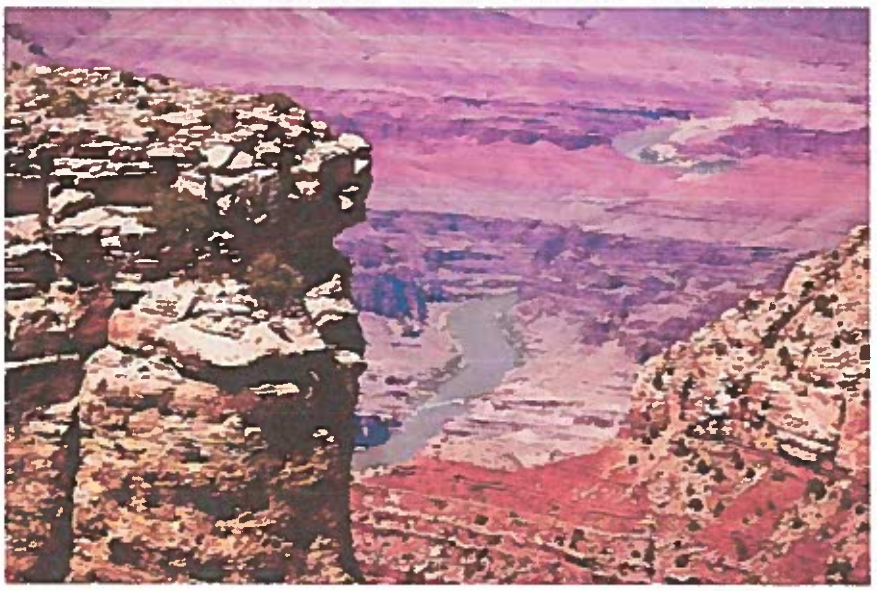
Read

Changes in the Parks

Water Erosion

Water wears away rocks slowly. As water moves, it moves things with it. Tiny grains of dirt and rock are carried away. In this way, rivers make canyons. The Grand Canyon is one of the world's largest canyons. It was made by the Colorado River.

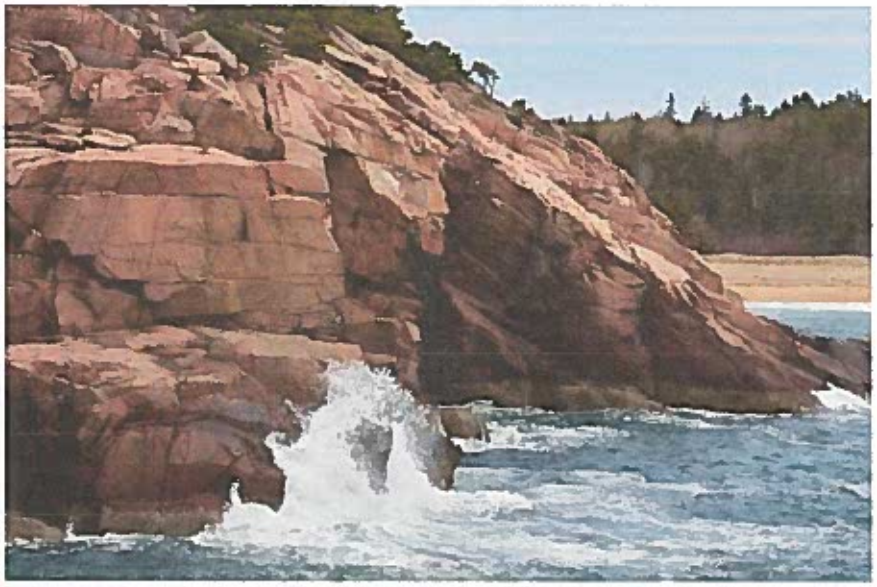




Read

Changes in the Parks

Ocean waves wear away rocks. Acadia National Park is in Maine. The cliffs here have interesting shapes. These shapes were made by the waves hitting them. The water eroded the rocks.



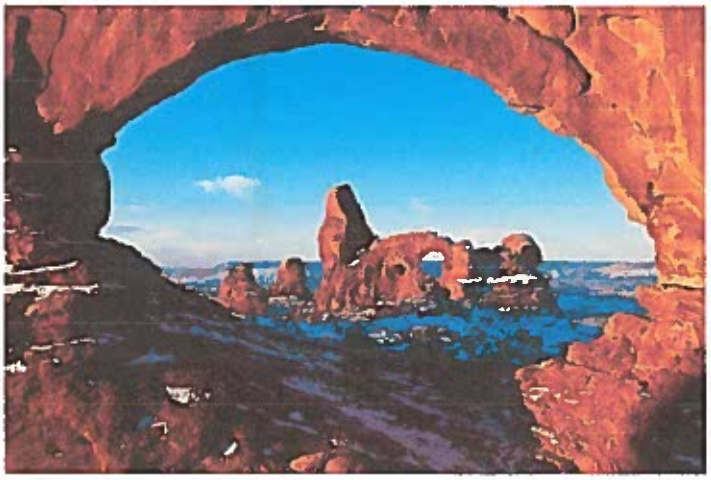
Rain can wear away soil quickly. It washes soil into rivers. As the river moves, it drops the soil. This puts curves into the river. We see this in the Denali River in Denali National Park in Alaska. Rain washes soil down the hills. The soil goes into the river. It gets dropped on the side of the river. Now the river has bends and curves.

Read

Changes in the Parks

Wind Erosion

Wind wears away rocks slowly. This happens mostly in dry places. We see wind erosion in Arches National Park in Utah. Wind moves along the rocks. As it moves, it breaks off grains of rock. It carries these away. This is what made the arches in this National Park.



Wind erosion can happen quickly. Death Valley National Park is in California. There are many sand dunes in this park. Wind blows through Death Valley. It causes erosion of the sand dunes. This causes the dunes to change shape. It also moves the dunes.

Read

Changes in the Parks

<u>Ice Erosion</u>

Ice erosion can happen slowly. This is true for glacier erosion. Sometimes, snow does not melt in the summer. Over many years, layers of snow are added. After a long time, they form a glacier.

Glaciers are very heavy. They slip down mountains. As they move, they scrape the rocks. This is erosion. Glacier erosion makes U-shaped valleys. We can see this in Glacier National Park in Montana. There is no more glacier in this part of the park. But we can see the valley. It is shaped like a U. This tells us that there was once a glacier here.

Read **Changes in the Parks**

What is erosion?

#1

Read **Changes in the Parks**

What is a slow way wind erosion happens?

#3

Read **Changes in the Parks**

What are the ways that water erosion happens?

#2

Read **Changes in the Parks**

How do glaciers erode rocks?

#4

Read Changes in the Parks

What is a fast way ice erosion happens?

#5

Read Changes in the Parks

#7

Read Changes in the Parks

#6

Read Changes in the Parks

#8

#1 Read **Changes in the Parks**

What is true about erosion?

a. It always happens fast.
b. It always happens slowly.
c. It does not change rocks.
d. It is the wearing away of the Earth.

#2 Read **Changes in the Parks**

How does water erosion happen?

a. Rain
b. Rivers
c. Oceans
d. All of the above

#3 Read **Changes in the Parks**

Which of these is a slow way that erosion happens?

a. When sand dunes are moved in the desert
b. When wind blows along rocks, breaking off grains
c. When ice wedges apart rocks and breaks off pieces
d. When rain storms cause soil to run off into rivers

#4 Read **Changes in the Parks**

How do glaciers erode rocks?

a. As they move down mountains, they scrape rocks and make a U-shaped valley.
b. They melt into rivers, carrying soil. This puts bends in the rivers.
c. Ice gets into rock cracks and breaks off pieces of the rock.
d. They cause sand dunes to move to a new place.

#5 Read **Changes in the Parks**

What is a fast way ice erosion happens?

a. As they move down mountains, they scrape rocks and make a U-shaped valley.

b. They melt into rivers, carrying soil. This puts bends in the rivers.

c. Ice gets into rock cracks and breaks off pieces of the rock.

d. They cause sand dunes to move to a new place.

#7 Read **Changes in the Parks**

#6 Read **Changes in the Parks**

#8 Read **Changes in the Parks**