



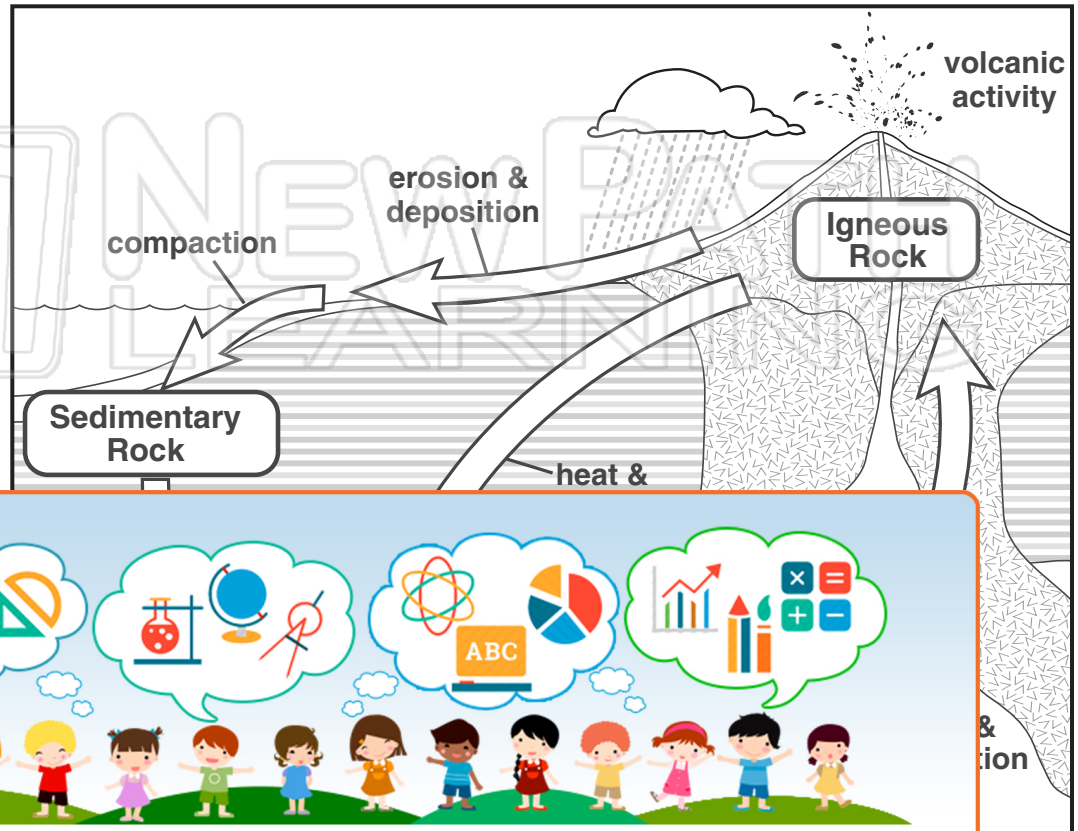
# Rocks & the Rock Cycle

Sci  
E

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

**Rocks** are made up of many tiny pieces of minerals. **Minerals** are natural, nonliving crystals that make up rocks.

The **rock cycle** is the **recycling** of old rocks into new rocks. It is caused by heat, pressure, chemical reactions, weathering and erosion. It can take millions of years for rocks to move through this cycle.



**Erosion** is the process of rock and soil being broken down by wind and gravity. Erosion can even be as slow as several millimeters per year.



## PREVIEW

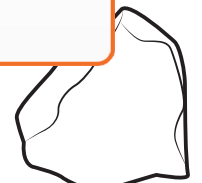
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**Igneous rocks** are found beneath the Earth's surface where magma reaches Earth's surface during a volcanic eruption as **lava**. Once on the Earth's surface, lava cools quickly forming igneous rocks. Magma may also cool and crystallize underground.

The weight of rocks pressing down on other rocks causes **heat and pressure** below the Earth's surface forming **metamorphic rocks**. Metamorphic rocks can form from sedimentary, igneous, and other metamorphic rocks.



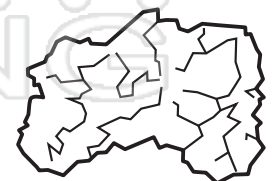
pumice



obsidian



gneiss



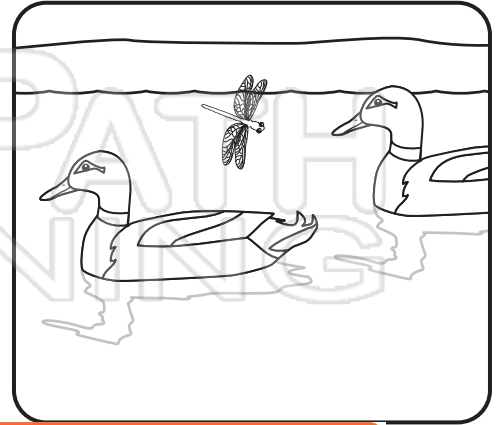
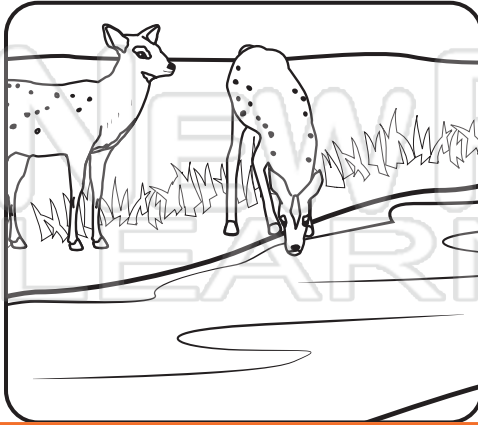
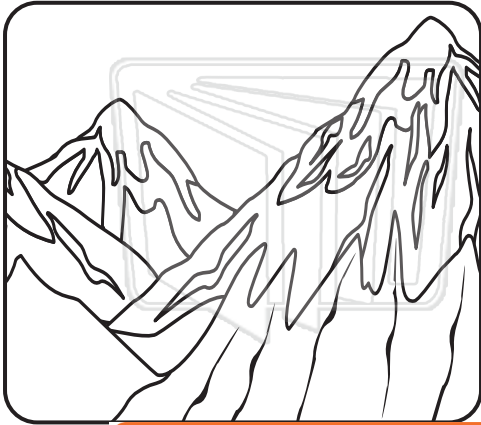
quartz



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## Landforms

**Landforms** are features that make up the Earth's surface. They include mountains, plateaus, canyons, rivers, hills and valleys.

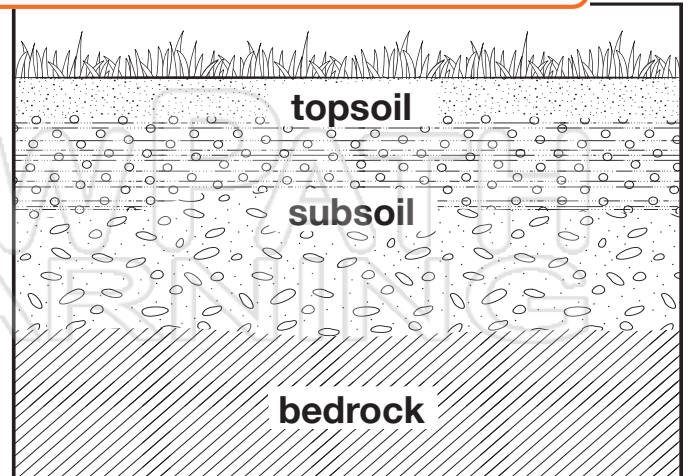


## PREVIEW

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**Weat**  
pieces.

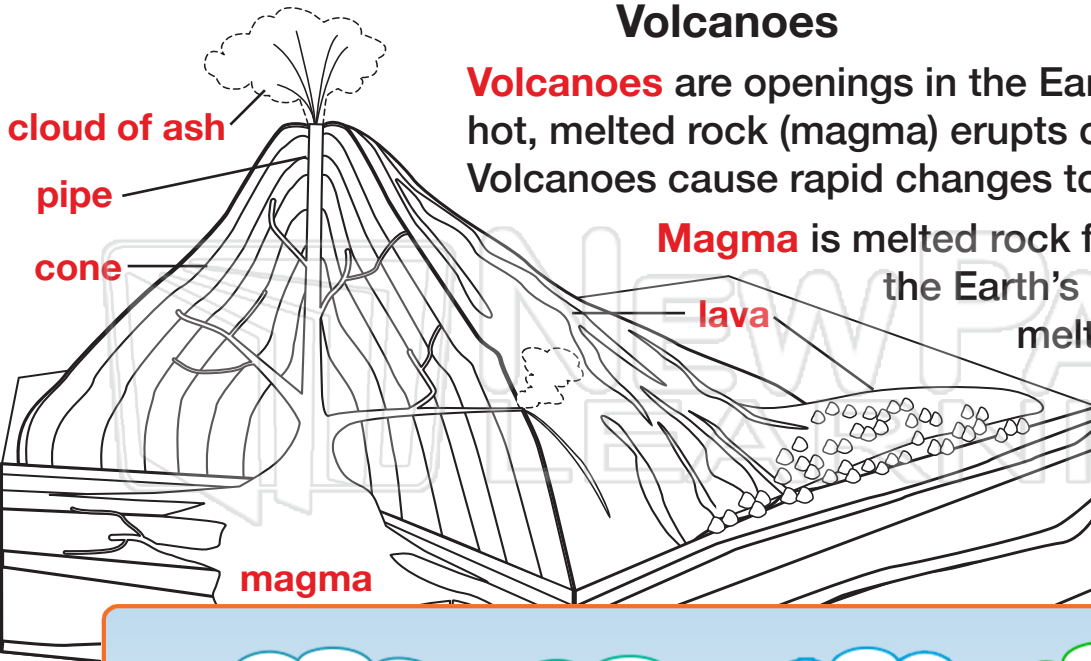
**Soil** is the loose material that covers much of the Earth's surface. It is made up of three main layers: **topsoil**, **subsoil** and **bedrock**. Soil is formed from the weathering and erosion of rocks and minerals.





Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## Volcanoes



**Volcanoes** are openings in the Earth's crust where hot, melted rock (magma) erupts onto the surface. Volcanoes cause rapid changes to Earth's surface.

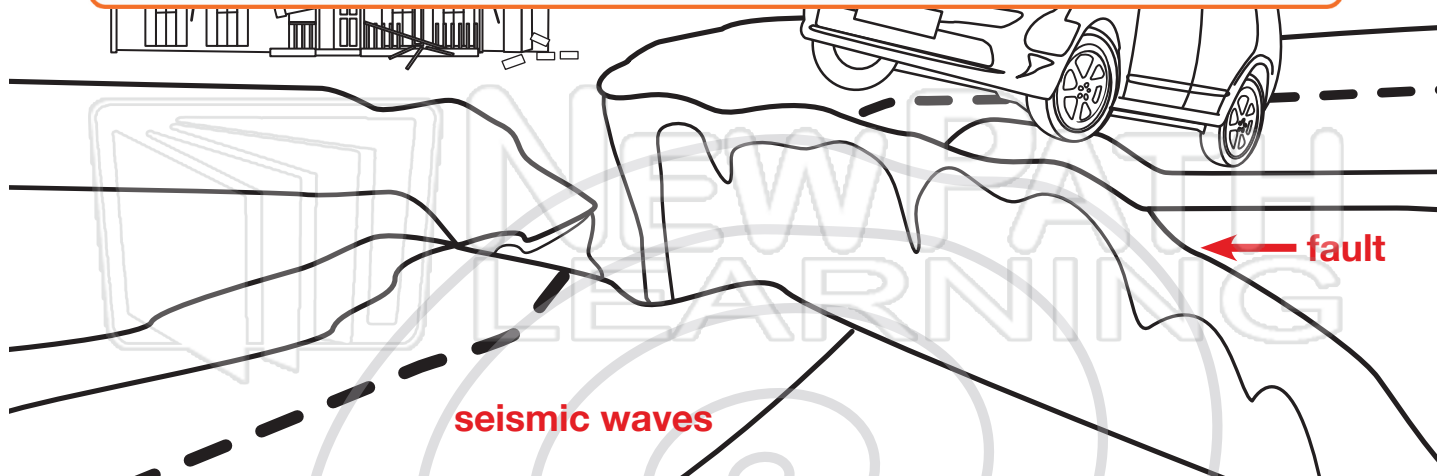
**Magma** is melted rock found **beneath** the Earth's surface. **Lava** is melted rock that comes **above** the Earth's surface.

**PREVIEW**

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Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## Volcanoes

What is a **volcano**? \_\_\_\_\_

Describe the difference between **magma** and **lava**.



**PREVIEW**

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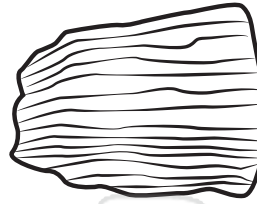


# Rocks & the Rock Cycle

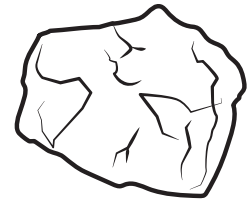
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Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

What are rocks? \_\_\_\_\_  
\_\_\_\_\_



sandstone



limestone

Sedimentary rocks are \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



halite

Draw & label a rock

Meta



rock

## PREVIEW

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Igne



pumice



obsidian



granite

Draw & label a rock



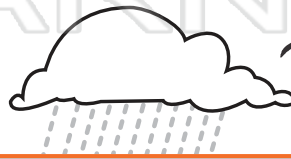
# Rocks & the Rock Cycle

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

What is the Rock Cycle? \_\_\_\_\_

\_\_\_\_\_

## Complete the Rock Cycle



**PREVIEW**

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Metamorphic Rock



magma



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

**Contours** on a **topographic map** show changes in elevation of various landforms.

Use the symbols key to study the map.  
Find the changes in elevation.

## Map Symbols

	contour line - elevation
	primary highway
	secondary highway
	trail
	river
	stream
	wetlands
	bridge



## PREVIEW

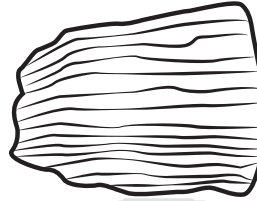
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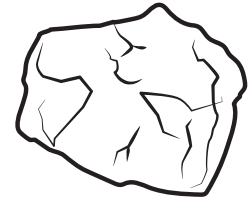


## Answer Key

What are rocks? Made from  
minerals above and under ground.



sandstone



limestone

Sedimentary rocks are \_\_\_\_\_  
formed by layers of eroded  
materials compressed together.



halite

Draw & label a rock

Meta  
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the



## PREVIEW

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Igneous rocks are \_\_\_\_\_

rocks made from lava from  
volcanoes. They are different  
based on temperature and where  
they were formed.



pumice



obsidian



granite

Draw & label a rock



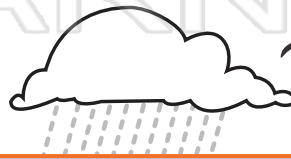


## Answer Key

What is the Rock Cycle? \_\_\_\_\_

The rock cycle is the recycling of old rocks into new rocks. It's caused by heat, pressure, weathering and erosion.

### Complete the Rock Cycle



## PREVIEW

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Metamorphic  
Rock

melting

magma



## Answer Key

### Volcanoes

What is a **volcano**? They are opening in the Earth's crust where magma erupts onto the surface. They can change the Earth's surface and even form mountains.

Describe the difference between **magma** and **lava**.

Magma is hot melted rock below the Earth's surface. When the magma erupts onto the surface it is called lava. Lava flows out of

volc

clo



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magma