

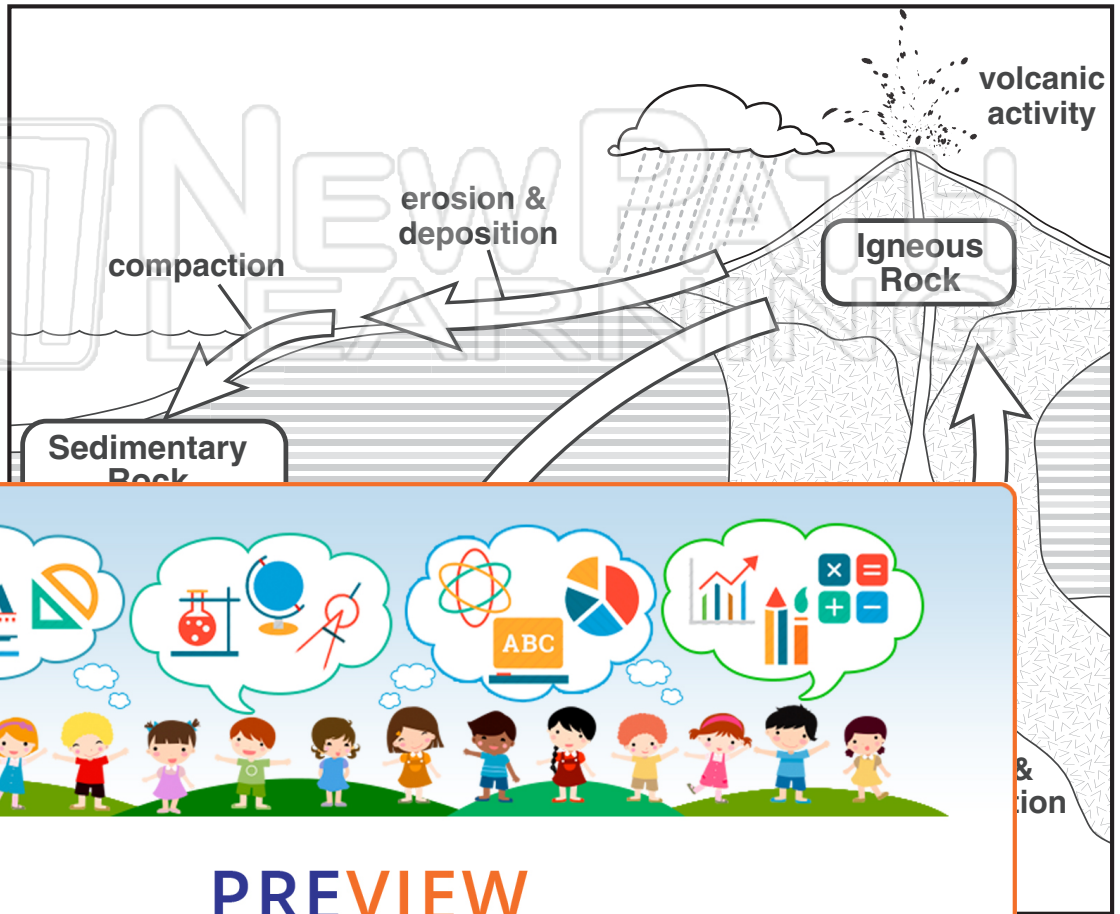


Rocks

Name _____ Class _____ Date _____

Rocks are solid materials found in nature made up of minerals. A **mineral** is a natural material usually found in the ground. Rocks can be classified into **three main groups** according to how they were formed.

Sedimentary rocks are formed when **sediment** piled up at the bottom of a body of water is



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PREVIEW

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As the magma underground **cools**, igneous rocks are formed. igneous rocks are also formed above ground when **lava** erupts from a **volcano** and then cools forming igneous rocks above the Earth's surface.

Sedimentary Rocks		Metamorphic Rocks		Igneous Rocks	
sandstone	limestone	gneiss	quartz	pumice	obsidian



Rocks

Name _____ Class _____ Date _____

Igneous rocks are classified by their origin, texture and composition.

Intrusive igneous rocks originate from cooling **magma**, while **extrusive rocks** are made from cooling **lava**.

Texture is related to how long it takes a rock to cool. **Slow-cooling rocks** form **visible crystals**, while **fast-cooling rocks** have small crystals that are not always visible.

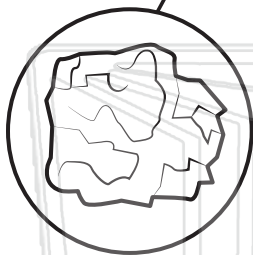
Dark igneous rocks, described as **mafic**, have a different composition than **light igneous rocks**, described as **felsic**.

Pumice is a lightweight rock made from frothing lava and gases. It is the only rock that can float on water.



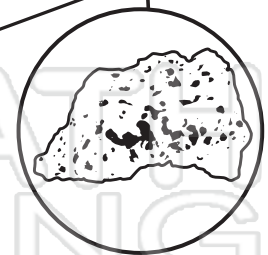
Obsidian is a

eous



granite

Granite is a light-colored intrusive rock with visible crystals.



basalt

Basalt forms much of the ocean's crust.



Rocks

Name _____ Class _____ Date _____

Sedimentary rocks are rocks that have been placed in layers by **weathering** or **erosion**. Over millions of years, these layers are **compressed** and **cemented** together.



PREVIEW

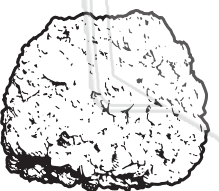
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sar



limestone



coquina

Chemical sedimentary rocks are sedimentary rocks that formed through **chemical precipitation**. Dissolved lime in ocean water precipitates out of the water and accumulates on the ocean floor which eventually lithifies into limestone.

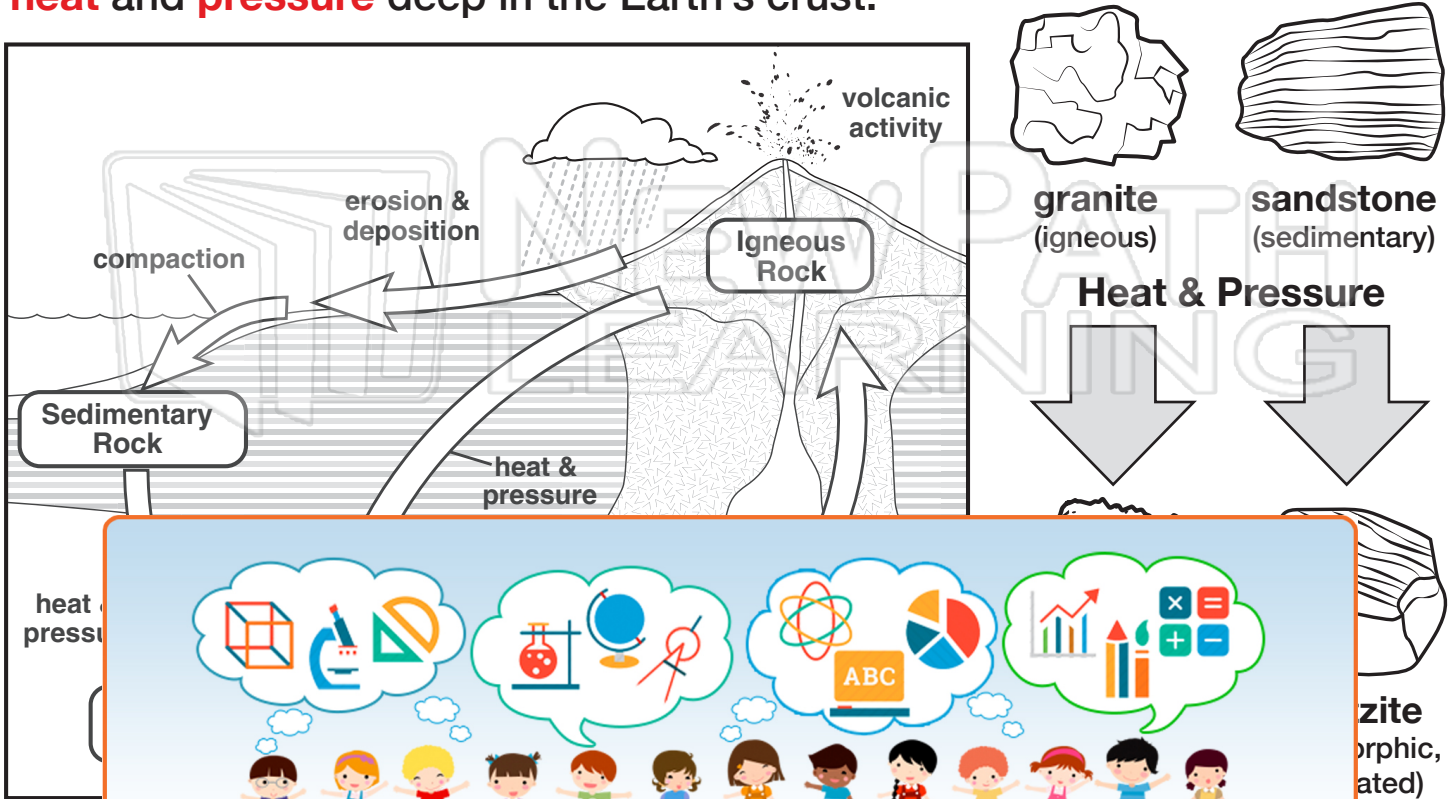
Biochemical or (**organic**) **sedimentary rocks** form when the **shell remains** of organisms collect on the ocean floor and lithify, becoming fossils and a layer of limestone.



Rocks

Name _____ Class _____ Date _____

Metamorphic rocks are rocks that have changed as the result of **intense heat** and **pressure** deep in the Earth's crust.



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Meta
Folia
such
slate
arran



gneiss



slate

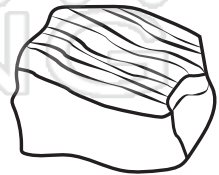


Foliated metamorphic rock is arranged in layers.

Nonfoliated metamorphic rocks such as marble and quartzite have their mineral grains arranged **randomly**.



marble



quartzite

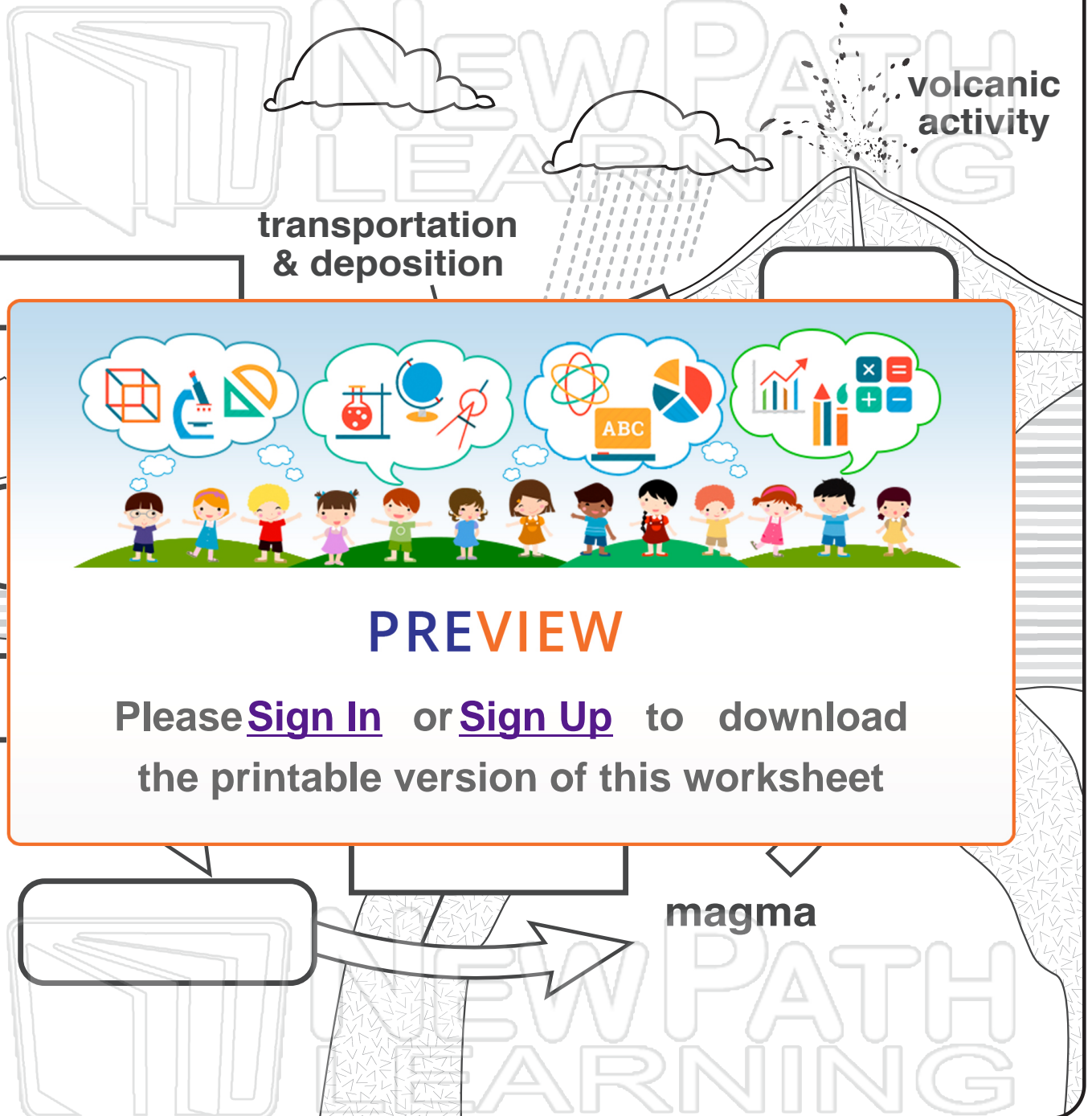


The Rock Cycle

Name _____ Class _____ Date _____

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



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Rocks

Name _____ Class _____ Date _____

Make a chart similar to the one below. Find pictures of each type of rock. You could also draw examples. Name the rock and briefly describe characteristics of each.

IGNEOUS	SEDIMENTARY	METAMORPHIC
		



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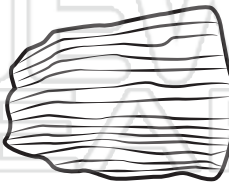

		
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Rocks

Answer Key - Example

Make a chart similar to the one below. Find pictures of each type of rock. You could also draw examples. Name the rock and briefly describe characteristics of each.

IGNEOUS	SEDIMENTARY	METAMORPHIC
 <p>pumice - lightweight, light color, felsic, extrusive</p>	 <p>sandstone - clastic, made from existing rock</p>	 <p>slate - foliated, arranged in visible layers</p>



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<p>granite - intrusive, visible crystals</p>  <p>obsidian - heavy, dark color, mafic, extrusive</p>
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<p>on ocean floor from fossils</p>



The Rock Cycle

Answer Key

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

volcanic activity

transportation & deposition

melting

Metamorphic Rock

magma

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