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ROCKS AND MINERALS

Igneous, Sedimentary, or Metamorphic?



FILL IN THE BLANKS

The rocks that make up Earth's crust are constantly changing over time. Rocks can form in several ways, and each type of rock forms by a different process.

Sedimentary rocks are formed by cementation or compaction of sediments. Most sedimentary rocks are made of materials that have been moved from their original places by water, wind, waves, or ice. Sedimentary rocks form in layers over millions of years and may contain fossils.

Metamorphic rocks are formed by intense heat and pressure. All kinds of rocks—sedimentary, igneous, and metamorphic rocks—can be changed by this process. These rocks are created by the heat and pressure from the weight of Earth's crust bearing down from above.

Igneous rocks are formed by melting and crystallization. These rocks are created when hot liquids and gases inside Earth's mantle cool or when hot magma rises and melts other types of rocks in Earth's crust.

DIRECTIONS: Use a dictionary, science book, or the Internet to help you label each type of rock. In each blank, write *S* for sedimentary, *M* for metamorphic, or *I* for igneous.

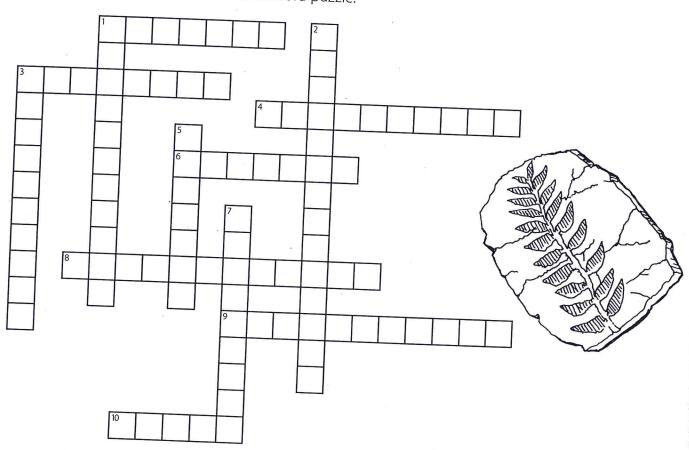
1. (gneiss1	1. sandstone
2. s	siltstone 1 .	2. basalt
3. li	imestone 13	3. pumice
4. g	granite 14	• slate
5. Co	onglomerate 15	• breccia
6. ol	bsidian 16	• halite
7. rh	nyolite 17.	gabbro
8. sc	hist 18.	quartzite
9. sha	ale 19.	flint
10. ma	arble 20.	tuff

ROCKS AND MINERALS

Simply Sedimentary

CROSSWORD PUZZLE

DIRECTIONS: Complete the crossword puzzle.



ACROSS

- 1. type of sedimentary rock that forms when sediments stick together
- 3. type of sedimentary rock that forms when minerals crystallize out of a solution
- 4. the breakdown of rock into smaller sediments, beginning the process of sedimentary rock formation
- 6. type of sedimentary rock that forms from the remains of organisms
- 8. a coarse-grained sedimentary rock in which large, rounded sediments can be seen
- 9. rock that forms when sediments are cemented or compacted together

10. a fine-grained sedimentary rock that forms slate when placed under extreme heat and pressure

DOWN

- 1. the process by which sediments are stuck together to form sedimentary rock
- 2. term for the layering of sedimentary rock
- 3. the process by which sediments are pushed together in layers to form sedimentary rock
- 5. remains of plants and animals that have been preserved in sedimentary rock
- 7. a sedimentary rock that forms from calcium carbonate and fizzes in acid

Just the Facts: Earth and Space Science

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Name:	
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MINERALS AND

The Pressure on Metamorphic Rocks



M Y S T E R Y W O R D

DIRECTIONS: Write each word in the correct blank to complete each sentence below. Circle the named letter in each answer. Then, unscramble the circled letters to reveal the mystery word.

9	culptures	WORD BANK	
	foliated	metamorphic	magma
	grains	nonfoliated	sedimentary
elogists process	Balanta con a su a s	pressure	slate
		Marble, gneiss, slate, and quartzite are exa (sixth letter)	imples of roo
		When mineral grains flatten and line up in has a texture. (third letter)	layers, a metamorphic rock
		When mineral grains in a metamorphic roc rock has a texture. (first lett	ck do not form layers, the er)
		Metamorphic rocks can form from igneous metamorphic rocks. (seventh letter)	,, or other
		heat	and
		Marble is often used in carving (second letter)	and monuments.
		Heat from pockets of hot for create metamorphic rocks.	and in Earth's crust can help
		As metamorphic rocks are created, the size and shape of the rock's ————————————————————————————————————	
		is a foliated metamorphic roc flooring, roofing, or chalkboards. (second let	T. d. s

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第一篇的是一个特别的	

Which Rock Am I?

FILL IN THE BLANKS

DIRECTIONS: Read the clues that describe a type of rock. Write the name of the rock from the word bank on the line below its matching set of clues.

WORD BANK

limestone obsidian

slate conglomerate

granite

marble

I am a sedimentary rock.
I am made from fragments of other rocks.
I am formed from large-grained sediments.
My sediments are smooth and rounded.

Which rock am 1?

I am an igneous rock.I am extrusive.I am usually black in color.I am often referred to as volcanic glass.

Which rock am !?

I am an igneous rock.I am intrusive.I have large mineral grains.Because of my strength, I am often used in making headstones.

Which rock am !?

I am a sedimentary rock.I am made of calcium carbonate.I can be found where water once stood.Bubbles of gas are produced when acid is placed on me.

Which rock am 1?

I am a metamorphic rock.
I am a foliated rock.
I am formed from shale.
My minerals are pressed so tightly that I am watertight.

Which rock am I?

I am a metamorphic rock.I am a nonfoliated rock.I am formed from limestone.I am a popular rock among artists, since I am easy to sculpt.

Which rock am !?