Grade 4 – Assignment for week of (5/26 to 5/29)

Learning about Earth's Rock Cycle:

Last week we looked at the Earth's different types of rocks igneous, sedimentary, and metamorphic.

This week we will review how these rocks are made and look at the changing Earth. We will learn more details about rock formation through what is called the Rock Cycle.

Science Vocabulary Words-

Rock Cycle:	the slow, never-ending process of rocks changing
Weathering:	the breaking down of rock into smaller pieces
Erosion:	the movement of broken rock by wind or water
Volcano:	a mountain formed by lava and ash
Earthquake:	a shaking of the ground caused by underground energy

Task #1:

Science Vocabulary Words "Unscramble and Write"

Unscramble each of the following (groups of letters) to make a **science vocabulary word**. Once you figure out the word, write the word, and *write a sentence using the word*.

Example:

(threa)

Earth> When the aliens visited planet <u>Earth</u>, their favorite food was chicken nuggets.

Do the same for the next three (groups of letters) below:

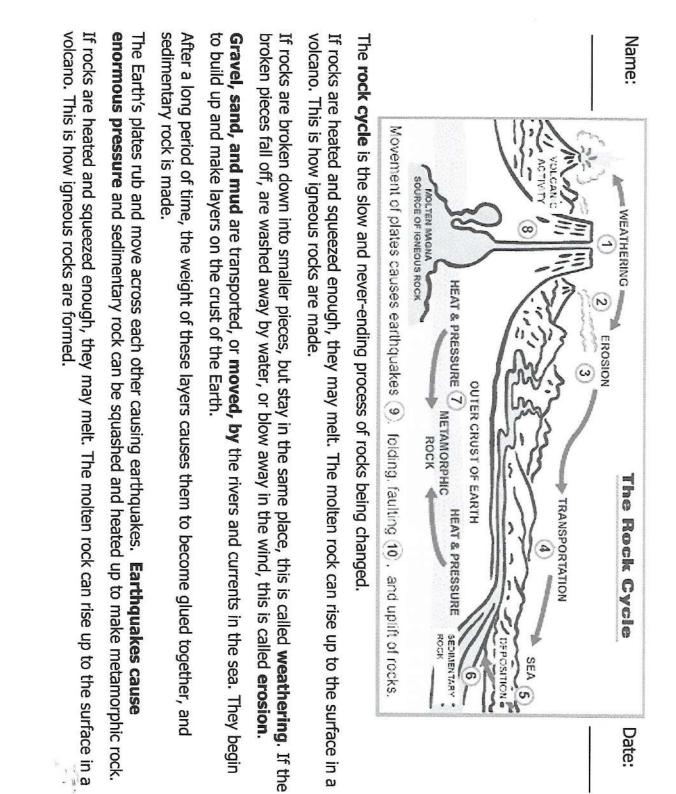
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Task #2:

Read the page below called, "The Rock Cycle." You will use this information and your science vocabulary to answer questions on the following page called, "The Rock Cycle - Response Sheet."



Task #3:

Use the information from the previous page entitled, "The Rock Cycle," and your science vocabulary to answer the questions below on the page entitled, "Rock Cycle - Response Sheet."

The Rock Cycle – Response Sheet

1. Use a complete sentence to describe what the rock cycle is.

2. Use a complete sentence to tell about the process of weathering.

3. Use a complete sentence to tell how layers of gravel, sand, and mud are moved.

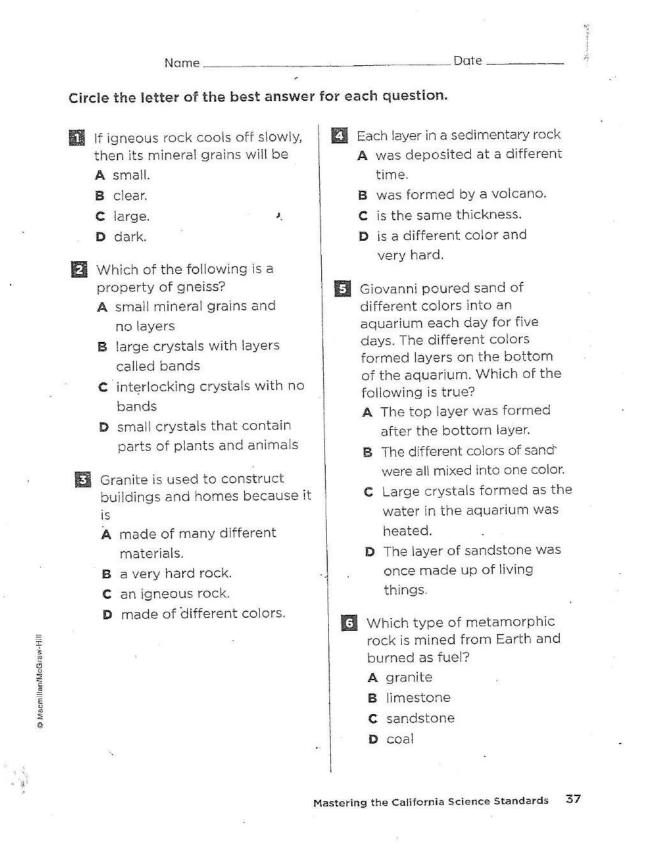
4. Use a sentence to explain what causes the pressure that makes metamorphic rock.

5. Use a sentence to explain how weathering and erosion helps to make sedimentary rock.

6. Use a sentence to explain how volcanoes help to create igneous rock.

Task #4:

Use what you have learned so far to complete (page 37), the multiple choice quiz below. Complete (page 37) by circling the letter that correctly answers the question. You can check your answers, listed on the answer key on the following page, when you are done.



Name Grade Date Circle the letter of the best answer for each question. 4 Each layer in a sedimentary rock 1 If igneous rock cools off slowly, then its mineral grains will be A was deposited at a different A small. time. B was formed by a volcano. B clear. **c** is the same thickness. C large. **D** is a different color and D dark. very hard. 2 Which of the following is a property of gneiss? 5 Giovanni poured sand of different colors into an A small mineral grains and aquarium each day for five no layers days. The different colors B large crystals with layers formed layers on the bottom called bands of the aquarium. Which of the C interlocking crystals with no following is true? bands' A The top layer was formed **D** small crystals that contain after the bottom layer. parts of plants and animals B The different colors of sand were all mixed into one color. Granite is used to construct C Large crystals formed as the buildings and homes because it water in the aquarium was is heated. A made of many different D The layer of sandstone was materials. once made up of living B) a very hard rock. things. c an igneous rock. D made of different colors. 6 Which type of metamorphic rock is mined from Earth and burned as fuel? A granite **B** limestone C, sandstone coal

D Macmillan/McGraw-Hill

Mastering the California Science Standards 37

Task #5:

Complete the word search below by finding the hidden words from the word list at the bottom of the page.

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Μ	В	G	М	R	U	В	Y	Ρ	Ι	Ζ	Е	Ζ	А	R	
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Agate						Garnet						Mineral			
Alexandrite						Geode						Opal			
Basalt					(Geology						Quartz			
Beryl						Gneiss						Rock			
Calcite						Granite						Ruby			
Crystal						Gypsum						Schist			
Dolomite						Igneous						Sedimentary			
Emerald						Jasper						Spinel			
Feldspar						Limestone						Topaz			
Fluorite					1	Metamorphic						Tourmaline			
Fos	sil				ſ	Mica						Zircon			

Rocks and Minerals Word Search