

Geologist: _____

I'm a Changed Rock!

Metamorphic rocks come from **sedimentary** or **igneous** rocks that have undergone tremendous temperature and pressure deep inside the earth.

Look at the rocks on your table. Then follow the instructions on this sheet.

1. On the lines below, write what type of rock (sedimentary or igneous) each parent rock is.

<u>Parent rock type:</u>	<u>Parent rock:</u>	<u>Metamorphic rock:</u>	Why did you make that match?
_____	Sandstone	Marble	_____
_____	Limestone	Gneiss	_____
_____	Shale	Quartzite	_____
_____	Granite	Slate	_____

2. Draw a line from the name of the parent rock to the metamorphic rock. Each rock has only one match.

3. In the column on the right, write why you matched the parent and metamorphic rocks the way you did. Was it the color? Minerals? Texture? Something else?

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Answer Key

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1. On the lines below, write what type of rock (sedimentary or igneous) each parent rock is.

<u>Parent rock type:</u>	<u>Parent rock:</u>	<u>Metamorphic rock:</u>	Why did you make that match?
<u>Sedimentary</u>	Sandstone	Marble	Similar feel- 'slimy and powdery
<u>Sedimentary</u>	Limestone	Gneiss	Same colors and minerals
<u>Sedimentary</u>	Shale	Quartzite	Similar colors and minerals
<u>Igneous</u>	Granite	Slate	Same minerals

2. Draw a line from the name of the parent rock to the metamorphic rock. Each rock has only one match.

3. In the column on the right, write why you matched the parent and metamorphic rocks the way you did. Was it the color? Minerals? Texture? Something else?

Students may list several reasons for their choice in matching parent and metamorphic rocks. These are some common responses above. Answers can vary if they are able to support their responses with evidence and observational studies.