Name Period Date

Unit 3 | Handout _____ | *Metamorphic Rocks Research*

Objectives: You will be able to:
1. Define metamorphic rock
2. Describe how a metamorphic rock forms
3. Explain the factors that cause metamorphism
4. Classify metamorphic rocks.

Summary: Metamorphic rocks are rocks that form from other rocks. This is caused by metamorphism. Metamorphism occurs from heat and pressure. Common changes include recrystallization and foliation.

Vocab: Metamorphic rock, parent rock, metamorphism, recrystallization, foliation (foliated), non-foliated.

Big Topic 1: Metamorphic rocks form from older rocks

Metamorphic Rock	
Define it:	
Examples:	
Use it in a sentence:	
Draw it:	

Parent Rock	
Define it:	

Metamorphism	
Define it:	
What it does:	

Reflect **1.** What happens to the parent rock after metamorphism?

_____

_____

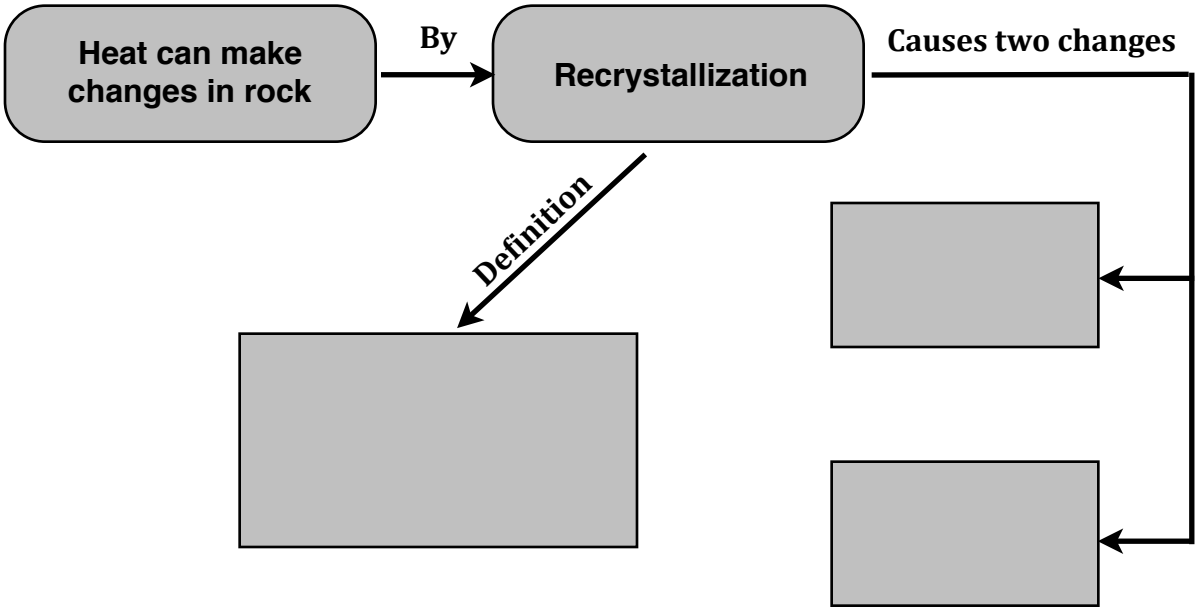
Name Period Date

Other important information: _____

_____

_____

Big Topic 2: Metamorphism can be caused by heat.



Reflect

1. How is crystallization different from recrystallization?

_____

_____

_____

2. What happens to changes as the temperature increases?

_____

3. Which rock would have larger crystals: a rock found at a depth of 1km at 800 C or a rock found at 2km at 900 C? Why?

_____

_____

_____

4. What happens to a metamorphic rock if it melts? Is it still a metamorphic rock? _____

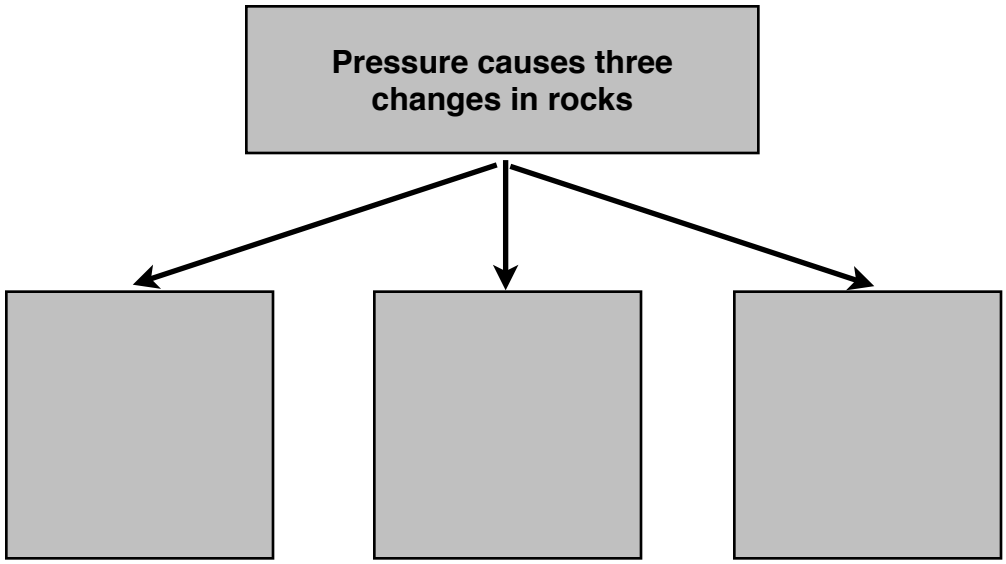
_____

Other important information: _____

_____

_____

Big Topic 3: Metamorphism is caused by pressure.



Reflect

1. Why does pressure increase density?

_____

_____

2. Do changes from pressure occur on earth's surface? Why or why not?

_____

_____

_____

Other important information: _____

_____

_____

Big Topic 4: A common feature of metamorphic rocks is foliation.

	Foliated	Non-foliated
Define it:		
Examples:		
What causes it:		
Draw it:		

Reflect

1. What are two ways you can tell if a metamorphic rock is foliated?

_____

_____

_____

2. How is foliation different from banding in sedimentary rocks?

_____

_____

_____