Metamorphic Rocks Notes			Name:		
Examples of meta	morphic rocks:				
•	(Tough	building ma	terial)		
•	(Creates lots of energy when burned, high quality) (used for buildings, statues, and countertops)				
•					
•	(used for ch	alkboards,	billiards, roofing, and	d landscaping)	
•	(contains garn	ets)			
•	(looks stripe	ed= Foliateo	l)		
■ " <u></u>	" = to change				
■ "	" = form				
Metamorphic rocks are formed from			(pre-existing rocks)		
Parent rocks car	ı be		, or other	rocks.	
YES, they can be	re-metamorphosed and	l still be me	tamorphic rocks.		
Metamorphism- and	→ The process through → ·	which a ro	ck's structure is chan	nged by	
PARENT RUCK	<u>5 + HEAT and PRESS</u>	URE = Me	amorphic Rock		
	neat and pressure				
	neat and pressure	=			
Shale →	heat and pressure	=			
■Granite →	heat and pressure	=			
Classifying Met	tamorphic Textures	: Foliated	OR Non-foliated		
1.	Rock:	of	in pa	arallel layers	
These rocks look s Foliated Metamorp	striped or banded (if the object of the obje	e minerals a	re similar colors the b	ands may be hard to see)	
2.	Rock:		bands.		
Non-foliated Metar	morphic Rock Examples	:	&	·	
Metamorphic F	Environments:				

Metamorphic rocks form where there is HEAT and PRESSURE Magma and Friction make Collisions and Gravity produce ____

M-E-T-A **MET-A-MORPH-IC Heat and Pressure** Heat, Heat, and PRESSURE Go..... FOLIATION

Rock type Review:

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Igneous-formed from the cooling and crystallization of <u>magma or lava</u>

Sedimentary-formed by the compacting and cementation of <u>layers of sediment</u>

•Metamorphic-formed by structural/chemical change due to heat and pressure



Regional Metamorphism

occurs when rocks are exposed to **heat and pressure** generated by nearby colliding, subducting tectonic plates and the **heat from the mantle**. This **changes** preexisting rocks into metamorphic rocks.

<u>Contact metamorphism</u> occurs when rocks are directly exposed to the contact areas of subducting tectonic plates (pressure) and the molten mantle/magma (heat)



Pressure may build as gravity increases the weight of the rocks above.

Heat is produced by underground chambers of magma.

Heat + Pressure= METAMORPHIC

Rock forming environments in Earth's crust

