Physical Geology South Sevier High School		Name Date		
	e Notes – Chapter 7	63	Per	
1.		refers to sol	id-state changes to ro	ocks in Earth's interior.
2.	This change is produced by incre hot, reactive fluids.	eased	,	, or the action of
3.	Old rocks and/or minerals, unstal	ole under new c	onditions,	into stable ones.
4.	Metamorphic rocks common in th	ne old, stable co	res of continents are k	known as
5.	Texture and mineral content of m	owing:		
	a			
	b			
	C			
	d			
	e			
6.	True or False Usually, no new m	aterial (except f	or water) is added to a	a rock during metamorphism.
7.	Where does the temperature (hea	at) come from th	at causes metamorph	nism?
8.	All minerals are minerals will form. If the	over a finite the temperature of	emperature range. If gets high enough, the	that range is exceeded, then n will occur.
9.	Pressure during metamorphism of to the km of burial within the crust	e depth within th		erlying materials. Pressure is s at a rate of kilobar per
10			est the minerale in a m	atama mahia raak
	The (higher/lower) the pressure,	•		·
11.	differential stress.	often lead to ford	ces that are not equal	in all directions. This is called
12.	stress o	causes flattening]	to stress.
13.	causes	flattening by slie	ding	to stress.
14.	Planar rock texture of aligned mir Foliation increases with pressure		by differential stress i	s known as
15.	Metamorphic rock classification is (layered			
16.	Foliated rocks named based on t	hree types of fol	iation. The three type	es are:
	a	·		
	b			
	С.			

17. Non-foliated rocks named based	on their	·
18. Fluids:		Source of the control of
a. Hot water in the form of w	ater	_ is most important.
b. Rising temperature cause	s water to be	from unstable minerals. rt agent for mobile
c. The water is very reactive,	acis as rapid transpo	it agent for mobile
19. Time:a. Metamorphism, particularlb. Longer times allow newly	y from high pressures stable minerals to gro	s, may take of years. w and increases their
		
20 metamor metamorphism produces (foliated	phism occurs in rocks //non-foliated) rocks.	s that are near a magma body. This type of
21 metamor	nhiem occure over wi	de areas and can cause extreme rock alteration
and deformation.	priisiri occurs over wi	de areas and can cause extreme rock alteration
22. Name the prograde metamorphis	m of shale, starting fro	om least foliated to the most foliated.
→	→	→
		
23. Name the source rock for the follows:	owing metamorphic ro	cks:
SOURCE ROCK		OCK
	Slate	
	Marble	
	Quartzite	
24. Partial melting during metamorph intrusive		These rocks exhibit both orphic textures.
25 metamor	phism is produced by	rapid application of extreme pressure. The only
force known to do this is from	in	npacts.
26. Regional metamorphism is assoc	iated with	plate boundaries.
27. Hydrothermal rock are common n	ear	plate boundaries.
		th rocks and precipitates minerals on its are often form this way (veins), such as gold
29. Why is foliation only associated w	rith regional metamor	ohism (5pts)?
30. Why are metamorphic rocks so lin	mited in the distributio	n at the Earth's surface (5pts)?