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Ski	lls Worksheet
<b>_</b>	D 0 2
U	R 9-3
Sec	ction: Causes of Volcanic Eruptions
	What are two factors scientists monitor that could indicate a volcano might rupt?
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THE	FORMATION OF MAGMA
	_ 2. The rock of Earth's mantle
	a. flows very quickly.
	b. has a puttylike consistency.
	c. is cooler than Earth's crust.
	d. is solid and rock-hard.
	_ 3. Rock usually melts to form magma when
	a. temperature decreases or pressure on the rock increases.
	b. temperature increases or pressure on the rock decreases.
	c. temperature and pressure on the rock both decrease.
4 33	d. temperature and pressure on the rock both increase.
4. V	Why is a decrease in pressure the most common cause of magma formation?
-	
	Why does magma often form at the boundary between separating tectonic lates?
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6. H	Iow does magma behave like air bubbles in a jar of honey?
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7. V	Where do a large number of the world's active volcanoes lie?
8. V	What is a tectonic plate boundary?

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9. How	ow is magma formation and movement affected at tectonic plate	boundaries?
WHEN	N TECTONIC PLATES SEPARATE	
:	<ul> <li>10. Tectonic plates move away from each other at a</li> <li>a. rift zone.</li> <li>b. divergent boundary.</li> <li>c. convergent boundary.</li> <li>d. magma chamber.</li> </ul>	
	<ul> <li>11. An area of deep cracks that forms between two tectonic plants pulling away from each other is a</li> <li>a. divergent boundary.</li> <li>b. mantle rock.</li> <li>c. crater column.</li> <li>d. rift zone.</li> </ul>	tes that are
	12. Lava from undersea rift zones produces volcanoes and mou called     a. the Ring of Fire.     b. subduction zones.     c. hot spots.     d. mid-ocean ridges.	ıntain chains
13. Hov	ow does magma form at a divergent boundary?	
 14. How	ow does new oceanic crust form at a divergent boundary?	
WHEN	N TECTONIC PLATES COLLIDE	
:	<ul> <li>15. A convergent boundary is a place where</li> <li>a. tectonic plates move side by side.</li> <li>b. oceanic crust moves away from continental crust.</li> <li>c. continental crust is subducted under oceanic crust.</li> <li>d. tectonic plates collide with each other.</li> </ul>	

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16. Subduction is the movement of one tect a. against another. b. over another. c. under another.	tonic plate
d. away from another.	
17. As descending oceanic crust scrapes pa a. its temperature and pressure increase b. it forms a lava fountain.	
c. it forms a volcano.	
d. its temperature and pressure decrease	e.
18. What happens to mantle rock when descending continental crust, causing the temperature and	
HOT SPOTS	
19. The Hawaiian Islands are located	
a. along a tectonic plate boundary.	
b. far from any plate boundary.	
c. over a lava fountain.	
d. on lava plateaus.	
20. What are hot spots?	
21. What is a mantle plume?	
PREDICTING VOLCANIC ERUPTIONS	
Match the correct description with the correct term provided.	n. Write the letter in the spac
22. has not erupted in recorded history	<ul><li>a. active volcano</li><li>b. dormant volcano</li></ul>
23. has not erupted recently, but may erupt in the future	c. extinct volcano
24, is erupting now	

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25. What happens to the eruption?	number and intensity of	small earthquakes just before	re an
26. What may be indicat dioxide in volcanic g		o of sulfur dioxide to carbor	1
27. What may be indicat	ed by a bulge in the side	of a volcano?	
28. What are two method may signal an eruption		t changes in a volcano's slop	e that
29. How are satellite ima	iges used to predict volc	anic eruptions?	