Name Class Date			
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MODERN EARTH SCIENCE

Chapter 7

Volcanoes

Read each statement below. If the If the statement is false, write F in			provided.
1. Knowledge of previous predicting its future eru		icular volcano is ge	nerally helpful in
2. Fissures are commonly	found at the top of s	hield volcanoes.	
3. Magma is able to rise u surrounding rocks.	pward through the	earth's crust becau	se it is less dense than the
4. Pyroclastic material is u	isually ejected from	volcanoes that erup	t felsic lava.
5. The Hawaiian Islands a	re examples of cinc	ler cones.	
6. The temperature and probelow the melting point		nosphere generally k	keep the rocks there
7. Volcanic activity is freq	uent in island arcs.		
8. The material that erupt	s from volcanoes or	n Io is felsic.	
9. The heat produced by in of the moon's ancient v		mbardment may be	responsible for much
10. Cinder cones are general	ally much steeper that	an shield volcanoes.	
Choose the one best response. Wr	ite the letter of that	choice in the space	e provided.
11. The easiest way to disti compare their:	nguish between vol	canic ash and volca	nic dust particles is to
a. color.	b. weight.	c. diameter.	d. density.
12. Magma that erupts und	er water often form	is rounded formation	ons called:
a. aa lava.c. volcanic bombs.		b. pillow lava.d. pahoehoe lava.	
13. The broad volcanic feat	ture formed by quie	et eruptions of thin	lava flows is called a:
a. shield volcano.c. rift.		b. cinder cone.d. stratovolcano.	
14. The catastrophic volcan global temperatures hap		used a series of tsur	namis and a drop in
a. Japan.	b. Hawaii.	c. Krakatau.	d. Iceland.

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Choose the one best response. Write the letter of that choice in the space provided.

- _____ 15. One of the features supporting the theory of volcanism on the moon is the presence of:
 - a. smooth crater interiors.
 - c. volcanic cones.

- b. continued eruption today.
- **d.** abundant pyroclastic material.
- 16. Seismographs can be useful in predicting volcanic eruptions because they measure:
 - a. changes in surface bulging.
 - c. temperature increases.
- b. changes in gas composition.
- d. earthquake activity.
- _____ 17. Which of the following is most likely to occur in an area of the asthenosphere where surrounding rock exerts less-than-normal pressure?
 - a. violent volcanic eruptions
 - c. plate subduction

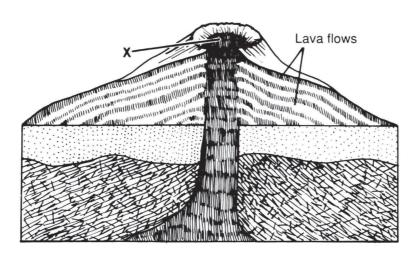
- b. magma formation
- d. caldera formation
- 18. As a result of the subduction of oceanic crust under a continent, magma is most likely to erupt from:
 - a. an oceanic ridge.

b. an oceanic trench.

c. an island arc.

d. a volcanic cone.

Use the diagram below to answer questions 19 and 20.



- _____ 19. What type of volcanic formation is represented by this diagram?
 - a. stratovolcano
- **b.** shield volcano
- c. caldera
- d. cinder cone

- _____ 20. The feature labeled X is a:
 - a. volcanic bomb.

b. hot spot.

c. volcanic bulge.

d. crater.

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Complete each statement by writing the correct term or phrase in the space provided.
21. The largest tephra, formed from solid rock, is known as
22. Areas of volcanism within lithospheric plates are known as
23. The composition of felsic lava differs from that of mafic lava because felsic lava contains
more
24. The volcano Olympus Mons is an unusual example of the pe called a
25. Lava with a wrinkled surface that forms when mafic lava hardens is known as
26. The thin lava that generally erupts from oceanic volcanoes is called
27. A stratovolcano is also called a
28. The funnel-shaped pit at the top of a volcanic cone that is formed by the explosion of
material is called a
29. Volcanic explosions that destroy the upper part of the cone often leave a depression called a
30. When solid rock in the earth's mantle melts, it forms a liquid rock known as
Read each question or statement and answer it in the space provided.
31. How are mountains formed when a plate with an oceanic crust meets one with a continenta crust?