		Date
STUDY GUIDE	Geology	
LTIPLE CHOICE: WRI	TE THE LETTER OF THE CORRECT AN	ISWER IN THE SPACE PROVIDED.
1. What is t	he outermost layer of the Earth ca	alled?.
2. What is t	he liquid layer of the Earth's core	e called?
3. In a rever	rse <b>fault</b> , where does the hanging	wall move relative to the
4. In a norm	nal <b>fault</b> , where does the hanging	wall move relative to the
5. What is t	he area where two tectonic plates	meet called?
6. What typ	be of boundary is formed when pl	ates collide?
7. What typ	be of boundary is formed when pl	ates separate?
8. What typ	be of boundary is formed when pl	ates slide past each other?
9. Accordin	ng to the continental drift theory,	a single, huge continent once
10. Where do	oes sea-floor spreading take place	?
11. Rock beg	gins to melt when	
12. Which of eruption?	f these describes a possible climat	e change caused by a volcanic
13. Which ty	pe of seismic wave can travel thr	ough solids, liquids, and gases?
14. Colliding	continental plates occur at which	type of boundary?
15. A break i	in a body of rock along which on	e slides relative to the other is called
15. What is t	he bending of the Earth's crust in	a spring-like manner called?
16. What is t caused?	he sudden return of elastically de	formed rock to its original shape
17. The Ring	of Fire refers to	

	Study and learn the	e following terms/idea	s for the geology test:	
Asthenosphere	Elastic rebound	Inner core	Reverse fault	Seismograph
Convergent boundary	Elastic deformation	Lithosphere	Seismic gaps	Subduction
Divergent boundary	Epicenter	Outer core	Seismic wave	Transform boundary
P waves, S waves	Focus	Pangaea	seismogram	Uplift
How can volcanoes cause climate change?				
How can changes in temperature and pressure cause rocks to melt into magma?				
<b>Focus</b> – the point along a fault at which the first motion of an earthquake occurs				
<b>Epicenter</b> – point on earth's surface <i>DIRECTLY ABOVE</i> the focus (point where the earthquake starts)				

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Illustrate and explain what a *subduction zone* is in the space provided (3 points).

18. A subduction zone is(explain in words)
Illustration of a subduction zone
Plate Tectonics

## USING KEY TERMS (WORD BANK WILL BE PROVIDED)

- 19. The lithosphere floats on a layer of the Earth's mantle called the
- 20. The mantle mainly consists of a dense layer called the \_\_\_\_\_\_
- 21. The liquid layer at the Earth's center is known as the \_\_\_\_\_
- 22. The theory describing the movement of the Earth's continents is known as
- 23. The process whereby rock layers are raised to higher elevations is
- 24. The process that takes place at mid-ocean ridges is called \_\_\_\_\_\_

## Earthquakes USING KEY TERMS (WORD BANK WILL BE PROVIDED)

- 25. The instrument used to record earthquakes is a(n) \_\_\_\_\_\_.
- 26. The point at which an earthquake begins, called the\_\_\_\_\_\_ is located

along a fault; the epicenter is found directly above this point on the surface of the Earth.

- 27. Sections along an active fault may have\_\_\_\_\_\_ where there is little
  - earthquake activity.
- 28. There are two types of \_\_\_\_\_\_ in which rock changes shape because of stress.
- 29. Body waves are \_\_\_\_\_\_ that travel through Earth.

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Illustrate and explain what a *continental drift* is in the space provided (3 points).

30. Continental drift is(explain in words)	
Illustration of continental drift	

Illustrate and explain how scientists detect and record seismic activity (10 points).

In your explanation, use the following terms: Richter scale, seismograph, seismic waves, epicenter

31. Detecting earthquakes is done by:
Illustration of sensing, measuring, or recording seismic activity (continue on back if necessary)

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