Science 8

Geology Unit Practice Test

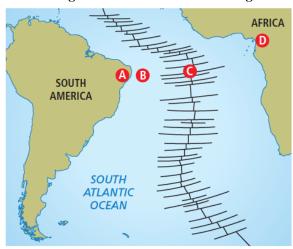
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Block:

- 1. List and explain the five pieces of evidence that support Continental Drift Theory.
- 2. What land mass does Pangaea refer to?
- 3. Complete the following table with the layers of the Earth:

Layer	State	Thickness	Composed of
	Solid		Granite
Mantle			
	Liquid		
	Solid (molten)		

- 4. Convection currents occur in which layer of the earth?
- 5. Describe how convection currents affect the movement of tectonic plates. Draw a diagram to explain your answer.
- 6. What is a tectonic plate?
- 7. What is the Mid-Atlantic Ridge? Where is it found? Identify the Mid-Atlantic Ridge on the map below.

8. Use the diagram of the Mid-Atlantic Ridge below to answer the questions that follow:



- a) How does the thickness of the crust at location A compare to the thickness of the crust at location B?
- b) Where is the youngest rock located?
- c) How does the age of rock at A compare to the age of rock at D?
- d) Where is magma most likely to be rising to the surface?
- 9. What is seafloor spreading? Explain this process using the terms "ridge push" and "slab pull".
- 10. What is a geologic hot spot? What happens when a tectonic plate passes over a hot spot?
- 11. Describe the theory of plate tectonics.
- 12. Describe the age of rocks relative to their distance from an ocean ridge at a divergent plate boundary.
- 13. Name and draw the three main types of tectonic plate boundaries.

i.

ii.

iii.

14.	Why does subd	uction occur at	some kind	ls of tectonic	plate bo	undari	es but not at others?		
15.	Name a mounta	iin range produ	ced by cor	ntinental-con	itinental	plate co	onvergence.		
16.	features. Continen Trench Hot spot	tal-continental island arc		-	nt types Q Japan Asia	Hawaii R	onic plates and geolog T U V Atlantic Ocean Africa America	W	Asia
17.	Fill in the follow	ving table rega	ding seisn	nic waves:					
	Seismic wave	Abbreviation	Description			D:	iagram		
	Primary								
		S							
-			Moves or	nly along the	surface				
18.	Complete the fo	ollowing table:	1			,			
[Type of Volcano	Structu	re	Where the	y occur		Example		
	Cone-sha		aped						
-	Shield								
							Mid-Atlantic Ridge		
19	Why do earthqu	lakes and volca	inoes occui	r at tectonic	nlate hou	ındarie	os?		

20. Identify **two** ways in which a tsunami is different from a regular ocean wave.

21. Match the term with the descriptor. Each descriptor can only be used once.

Term	Descriptor
1 Continental drift theory	A. A process that results in the Mid-Atlantic Ridge
2Plate tectonic theory	B. The point on the Earth's surface directly above the focus
3 Spreading ridge	C. The theory that the crust is broken up into large plates that move and then rejoin
4 Magma	D. Vibrating energy released by an earthquake
5 Mid-Atlantic Ridge	E. A geological feature that results from sea-floor spreading
6 Sea floor spreading	F. The most inner layer of the Earth
7 Convergent plate boundary	G. An area where tectonic plates collide
8 Divergent plate boundary	H. The most outer layer of the Earth
9 Transform plate boundary	I. A massive release of energy that shakes the crust
10 Crust	J. The location inside Earth where an earthquake starts
11 Mantle	K. Hot fluid below or within the Earth's crust
12 Inner Core	L. A compression wave that travels through solids, liquids and gases
13 Outer Core	M. An area where tectonic plates slide past one another
14 Tectonic plates	N. A wave that travels along the Earth's surface
15 Earthquake	0. A measurement of an earthquake
16 Focus	P. A long mountain range running north to south down the length of the Atlantic Ocean
17 Epicentre	Q. The second most inner layer of the Earth
18 Seismic waves	R. The theory that the continents have not always been in their present locations but have moved over millions of years.
19 P wave	S. An area where tectonic plates are spreading apart
20 S wave	T. A transverse wave that does not travel through the liquid mantle
21 L wave	U. The large slabs or rock that form Earth's surface and move over a layer of partly molten rock
22 Richter magnitude scale	V. The layer of the Earth where convection currents occur