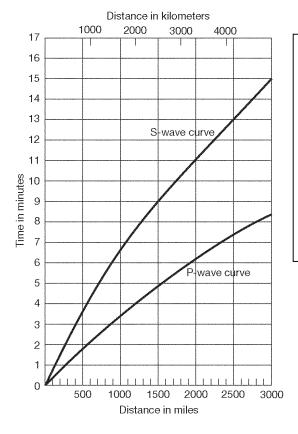
Name:	Date:	Pd:
Unit 2 Formative	Assessment – Plate	Tectonics

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	01110	2 Tormative Assessment Trate rectoring
Chapt	ter 8: Earthquake	<u>es</u>
L. Wh	en an earthquake	occurs, energy radiates in all directions from its source, called the
	A. Epicenter B. Focus	C. Fault D. Seismic center
2. A fa	ault is	_•
	B. A fracture in t C. The place on I	rth where earthquakes cannot occur. The Earth where movement has occurred. Earth's surface where structures move during an earthquake. Ee for an earthquake.
3. Ide	ntify <u>AND</u> describe	the <i>three (3)</i> types of seismic waves:
	A:	
	B:	
	C:	



5. According to Figure 8-1, what is the distance between the seismic station and an earthquake epicenter, if the first S wave arrives 5.0 minutes after the first P wave?

In miles: \_\_\_\_\_

In Kilometers: \_\_\_\_\_

Figure 8-1

## **Chapter 9: Plate Tectonics**

6. Who proposed the Continental Drift hypothesis **AND** what does it say?

7. List *four (4)* pieces of evidence to support this hypothesis:

- A.
- o B.
- o C.
- o **D**.

8. What was the response of the scientific community to this hypothesis and why?

9. What is the weaker, hotter zone beneath the lithosphere that allows for motion of Earth's rigid outer shell?

- A. Crust
- C. Asthenosphere
- B. Outer Core
- D. Inner Core

10.	Most of Earth's earthquakes, volcanoes, an	d mountain building occur
	A. in the center of the continents.	C. in the Himalayas.
	B. at plate boundaries.	D. at volcanic island arcs.
11.	Match the left column with the right colum	
	Convergent Boundary	Grinding past each other
	Divergent Boundary	Moving together
	Transform-fault Boundary	Moving apart
12.	Match the left column with the right colum	
	Land Rift Valleys	Divergent Oceanic-Oceanic
	Continental Volcanic Arcs	Convergent Oceanic-Oceanic
	Mountains	Convergent Oceanic-Continental
	Volcanic Island Arcs	Convergent Continental-Continental
	Trenches	Divergent Continental-Continental
	Ocean Ridges	Convergent Oceanic-Continental
13.	Match the left column with the right colum	n by drawing arrows:
	Destructive Plate Margins	Divergent Boundaries
	Constructive Plate Margins	Convergent Boundaries
14.	Scientists agree that convection currents of A. crust C. mantle B. outer core D. inner core	ccurring in the are the driving force for plate movement.
15.	The main source of heat in the Earth's inter  A. the warm troposphere of our atmos	
	B. the eruption of volcanoes	D. the radioactive decay of elements
16.	causes oceanic lithosphere to	slide down the sides of the oceanic ridge due to gravity.
	A. Mantle plume C. Ridg	
	B. Convective flow D. Slab	p-pull
17.	is thought to be the primary d	ownward arm of convective flow in the mantle.
	A. Mantle plume C. Ridg	ge-push
	B. Convective flow D. Slab	p-pull
18.	The is a rigid outer layer of Earth t	hat rests on top of a weak plastic layer of the mantle called the
	A. asthenosphere, inner core	C. lithosphere, asthenosphere
	B. asthenosphere, lithosphere	D. lithosphere, inner core
Cho	apter 10: Volcanoes	
10	Contrast lava and magma.	
IJ.	Contrast lava and magnia.	

20. In what geographical region of the world are most volcanoes found? Why is this true?

3

A.	Lahar	C. Lapilli
В.	Cinders	D. Volcanic bomb
22. <b>Descr</b> i	<b>ibe</b> three (3) different	types of pyroclastic material:
A:		
B:		
C:		
Human Im	pact of Earthquakes	and Volcanoes
23. <b>Descri</b>	ibe the necessary safe	ety precautions and action responses of people living in regions with:
A:	Earthquakes -	
B:	Volcanoes -	
Geologic F	History of North Caro	<u>llina</u>
24. <b>Descri</b> motion)	i <u>be</u> how the Appalach	ian Mountains were formed (include the name of tectonic plates involved and their

21. Which of the following is NOT a type of pyroclastic material?

25. What is the fall line in NC? Where is it found?