Name: KEY		GEOLOGY UNIT			
Blk:Date:		Science 8			
	UNIT IV CEOLOGY KO	/ Torme			
· ·	UNIT IV GEOLOGY Key	100			
These are the v	ocabulary words that you should	d know for your final exam.			
asthenosphere continental drift theory converging plates diverging plates earthquakes epicentre fault hot spot inner core lithosphere	mantle mantle convection outer core plate boundary plate tectonic theory primary waves ridge push slab pull rift valley secondary waves	spreading ridge subduction zone surface waves tectonic plates transform fault trench volcanic belt volcanic island arc volcanoes			
	Key Concepts				
These are the mo	ain ideas from this unit. Fill-in-the	-blanks to complete.			
later drifted to their  1. The continen	current positions: tal shelves of the continents	can be aligned like a  part have <u>Similar</u> In ranges, and osits, Climates)			
Plate Tectonics Theory an		)			
<ul> <li>The process of</li> <li>for continental drift</li> <li>1. The continental</li> </ul>	EA FLOOR SPEGAD	provides a mechanism of rock, known as			

Ear	rths Layers and Convection	
	• Earth has distinct LAYERS	·
	• When the tectonic plates move acro	ss Earth's surface, they carry the
	continents with them.	
COLUDE Vo	<ul> <li>Earth's surface, causing tectonic place</li> <li>When tectonic plates CONVEY</li> <li>beneath the other or the edges of the mountains.</li> <li>Tectonic plates can also DIVER on land and ridges in the oceans.</li> <li>Icanoes and Earthquakes</li> <li>Tectonic plates may begin to slide process.</li> </ul>	e plates may crumple, forming  26E, or spread apart, forming rifts
	<ul><li>which may be released as an earthq</li><li>Volcanoes occur at tectonic PLA</li></ul>	uake.  TE BOUNDACIES or over re magma is coming up through Earth's
0.0.0	TCHING.	
	TCHING: ocus <u>G</u>	A. area where molten rock rises to Earth's
	thospheric plate <u>F</u>	surface  B. point on Earth's surface where two plates are forced apart
3. e	picentre <u>C</u>	C. point on Earth's surface directly above where an earthquake actually begins
4. st	ubduction zone $\overline{\mathcal{D}}$	Ø. the result of one plate "diving" beneath another plate
5. m	nantle convection <u>E</u>	. flowing currents of material that help move plates across Earth's surface
6. s	spreading ridge_AB	F. portion of rock material that includes Earth's surface G. point inside Earth where an earthquake actually begins
100		an and agend manner. I a - O a

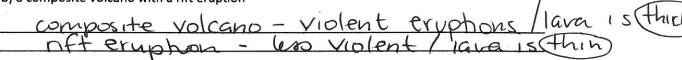
## **SHORT ANSWERS**

ridge NA	iy occan roc	cle G	SIII age til	D M	the	ce away from an or	Duching
older	rock	ha	ne "	outs	ide"		Pozm.
(b) Explain how							

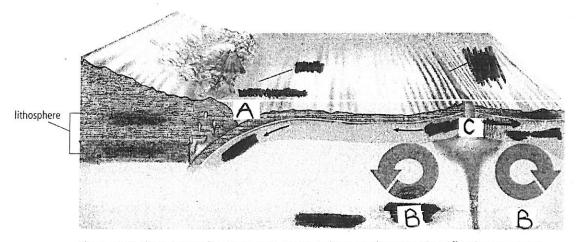
8. Compare and contrast the following.

(a) the ground motion of a						
D-Wave	15	like	a slin	ita ( cor	more ssion	ware)
5-wave						
			•			

(b) a composite volcano with a rift eruption



9. Use the following diagram to answer question



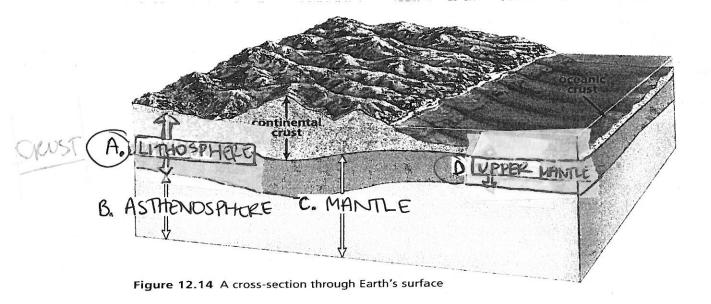
**Figure 12.13** Thermal energy from inside Earth, gravity, and tectonic plate interactions affect the movement of tectonic plates.

For each **process** listed in the table, give the letter of the location shown on the diagram and a brief explanation of the process.

Process	Location	Explanation
(a) Convection	В	not magma rises, cool magma trops
(b) Slab pull	A	denser oceanic crust "sinks" below conhnental
(c) Ridge push	C	new nock pushes old nock const



## 10. Label the Layers of the Earth on the diagram below:



11. Identify the types of waves in the diagram below:

