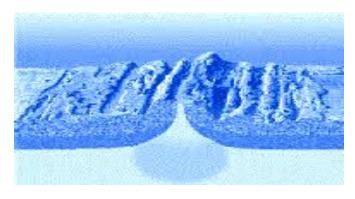
Item #	4.3 Guide	ed Reading (pgs 159-	-166) Nam	ne:
	energy from one			tion within a fluid.
Example: Sketch the	e diagram of water being	heated (be sure to	include arrows and la	ibel the temperatures)
2) Explain what the mo	lecules of water are doing	g when heat energ	y is added:	
3) Sketch/Draw how th	e particles (or molecules)	move during conv	vection (label hot/cold	and include arrows):
4) Why does the water	(or any fluid) become les	s dense—what is h	nappening to the mole	ecules? Explain.
5) Where does some he	eat energy go when it rise	es to the top?		
	is the cycle (or flowing pa and aree			
7) Where does the mar				
	Asthenosphere (up			e near core temp

10) Describe a plume (in your own words) and sketch a drawing:

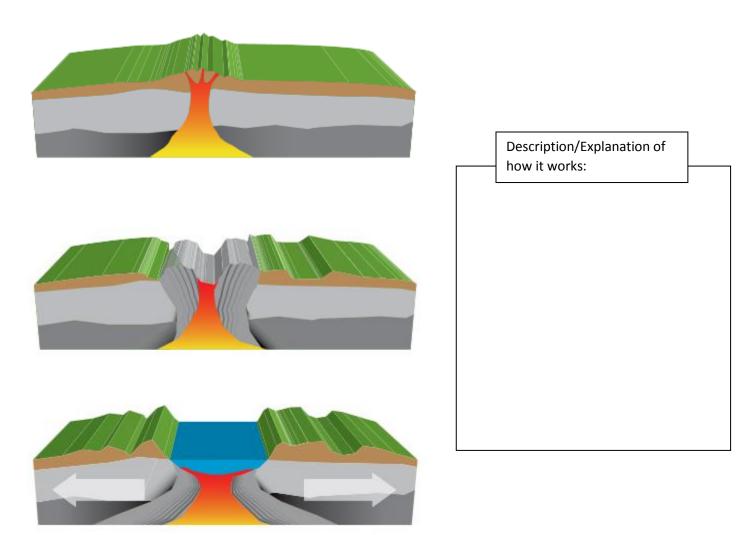
- 11) How often does convection currents occur in the mantle? Why does it take this long? Explain.
- 12) When mantle material reaches Earth's surface when two plates move away from each other, two things could occur (picture has been labeled for you; give a brief explanation of what is happening in each picture):

a) Mid-Ocean Ridge



Description/Explanation of how it works:

b) Ocean-floor spreading (also known as Sea-floor spreading)



Reflect Questions (1-4) pg. 166 (can answer questions below, on the side or on the back!)