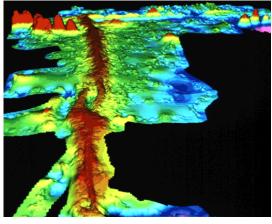
NAME:	PERIOD:	DATE:		
PLATE TECTON	ICS N	OTES		
What is Plate Tectonics?				
The Earth's crust and upper mantle are broken into	sections called			
Plates move around on top of the like	rafts			
The Crust				
layer 5 – 100 km thic	ck Made of			
The Mantle				
Layer of Earth between the and the				
Contains most of the Earth's is denser	than the	_		
Has more magnesium and less aluminum and silicon	n than the crust	The Earth's Crust		
The Core		Rocky Crust Outer Mant		
Below the and to the center of the Earth				
Believed to be mostly				
What is the Lithosphere?		©ZoomSchool.com		
Lithosphere =				
Less than the material below it so it "	, j			

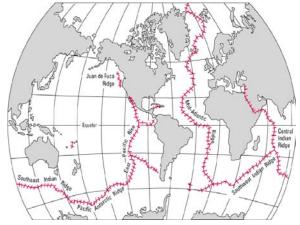
## What is the Asthenosphere?

Asthenosphere = \_\_\_\_\_

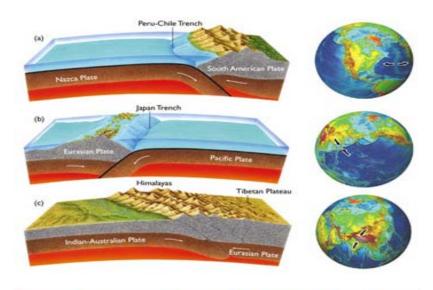
The plates of the lithosphere float on the asthenosphere

NAME:		PERIOD: DATE:			
2 Types of Plates					
	~ plates below the c	oceans			
	~ plates below the c	continents			
How do Plates Move?	•	Ridge Lithosphere  Trench "SLAB PULL"  Trench "SLAB PULL"	ch		
Plates move because the	re is a slow movement of ho				
mantle that lies below th	ne rigid plates	700 km			
Plate Boundaries		Inner	Outer core		
Bou	ndaries = Boundary betwee	en two plates that are moving apart or 1	— rifting		
Rifting causes					
Most divergent boundar	ries happen on the				
Features of Divergent	Boundaries				
Mid-ocean ridges	rift valleys	fissure volcanoes			
Sea floor spreading					
Large	begin to crack and	split apart. The gaps fill with	and		
small seas become	·				
The mid ocean ridge cor	ntinues to produce new				
Mid Ocean Ridges – und	lerwater	that run through the Earth's Bas	sins		
rises to the	e surface and solidifies				
New crust forms and old	der Crust is pushed farther a	away from the ridge			
		Juan de Fusa Ridge			





NAME: _	PERIOD: DATE:
	= Boundaries between two plates that are colliding
There are 3 t	ypes of convergent boundaries
Type 1	Continent – Ocean Collision
Ocean plate	colliding with a LESS DENSE continental plate
	: where the more dense plate slides under the less dense plate
The denser of	ceanic plate sinks (subducts) beneath the less-dense continental crust
	occur at subduction zones
Type 2	Ocean – Ocean Collision
Ocean plate o	colliding with another ocean plate
The	_ dense plate slides under the dense plate creating a subduction zone
called a	
Type 3	Continent – Continent Collision
A continental	plate colliding with another continental plate
Then this happe	ens, collision zones appear. This is where land folds and faulted mountains form
	~ Boundary between two plates that are sliding past each other
	happen along faults



NAME:		PERIOD:	DATE:			
Two tectonic plates slide past one another						
The San Andreas fault is a	n example of a	boundary				
A fault is a break in a across which there is observable						
Types of Faults:						
1.						
2.						
3.						
Two Causes of Plate Tectonics						
• Hot in	the Earth moves toward t	he surface, cools,	get denser, and then sinks			
again with the pull	of gravity. This creates _		in the			
which causes the plates to move.						
When plates move tog	ether the		collides. The heat and			
pressure make metamorphic The rocks push and fold into high						
Sois Earth still growing	;?					
Dense heavy oceanic crust can be subducted below less denser continental crust. The friction						
melts the rock and	_ rises through the	to form nev	V			