

## **Plate Tectonics**

## **Continental Drift** Section 1

A.	A. The continental drift hypothesis—continents have moved slowly to their current location	
	1. All continents were once connected	as one large landmass now called
	2. The land mass broke apart, and the _	drifted to their present positions.
	3. Evidence for continental drift	
	a fit of the	e continents .
	b. Similar have	been found on different continents.
	c. Remains of warm-weather plants	in areas and glacial deposits in
	areas sugge	st that continents have moved.
	d. Similar structure	s are found on different continents.
В.	. At first, continental drift was not accept	ed because no one could explain or
	continents had moved.	
	ection 2 Seafloor Spreading  . Using waves, scientist called the mid-ocean ridges in many ocean	s discovered a system of underwater mountain ranges
В.	- ·	theory of to explain
	_	's rises upward to the surface at the
	2. Then, it flows sideways, carrying the	away from the ridge.
	3. As the seafloor spreads apart, and forms new seafloor.	moves up and flows from the cracks, cools,
C.	. Evidence for seafloor spreading	·
	1 rocks are locate	ed at mid-ocean ridges.
	•	field are recorded by rocks in strips parallel to ridges.

## Note-taking Worksheet (continued)

## Section 3 Theory of Plate Tectonics

л.	LK	ate movements
	1.	Earth's and upper mantle are broken into sections.
	2.	The sections, called, move on a plasticlike layer of the mantle.
	3.	The plates and upper mantle form the
4. The plasticlike layer below the lithosphere is called the		
В.	Pla	ate boundaries
	1.	Plates moving—divergent boundaries
	2.	Plates moving
		a. Denser plates sink under less plates.
		b. Newly formed hot forced upward forms volcanic mountains.
	3.	Plates collide
		a. Plates crumple up to form ranges.
		b are common.
	4.	Plates slide past—called boundaries; sudden movement can cause earthquakes
C.	Co	onvection inside Earth—the cycle of heating, rising, cooling, and sinking of material inside
	Ea	rth is thought to be the behind plate tectonics.
D.	Fe	atures caused by plate tectonics
	1.	Faults and valleys
	2.	Mountains and
	3.	Strike-slip faults—cause of
F	ፐሬ	eting for plate tectonics escientists can measure