State Standards:	CLASSLRs:	
▲ Evaluate evidence of the past and current	▲ Character by: Acting with personal and	
movements of continental and oceanic crust and	academic integrity.	
the theory of plate tectonics to explain the ages		
of crustal rocks.		
▲ Develop a model to illustrate how Earth's	▲ Leadership by: Engaging in cooperative	
internal and surface processes operate at	learning experiences.	
different spatial and temporal scales to form		
continental and ocean-floor features.		
▲ Develop a model based on evidence of Earth's	▲ Attitude: Engaging in classroom activities.	
interior to describe the cycling of matter by		
thermal convection.		
▲ Construct an explanation based on evidence	▲ Scholarship by: Engaging in higher-level	
for how the availability of natural resources,	thinking skills.	
occurrence of natural hazards, and changes in	C C	
climate have influenced human activity.		
	▲ Service by: Assisting others in daily	
	interactions	
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## Earthquakes in California Unit

## On test day you should be able to answer all of the following questions:

- 1. What is the evidence for and what is the mechanism for plate tectonics? (Sketch the interior of the Earth, show and explain how and why the crust moves, and the seismic waves)
- 2. What evidence of plate tectonics can be found in oceanic and continental crust that can explain the ages and movement of the crust?
- 3. What are the structures that form at the three plate boundaries, you can sketch them, and explain how they form (the different forces that construct and destroy that make them the shapes they are)?
- 4. Why are some earthquakes of the same size (magnitude) more destructive than others of the same size?
- 5. How do earthquakes occur and explain their direct and indirect impacts?
- 6. What hazards are associated with plate tectonics?

## Investigation and Experimentation skills and concepts

- 1. Know the difference between hypothesis and theory.
- 2. Understand the time intervals that are characteristic of natural phenomena.
- 3. Solve scientific problems by using mathematical skills and equations.
- 4. Recognize the cumulative nature of scientific evidence.

Vocabulary/Concepts		
Continental Drift	Pangaea	Plate Tectonics
Convergent Plate Boundary	Divergent Plate Boundary	Transform Plate Boundary
Paleomagnetism	Hot Spot	Focus
Epicenter	Fault	Liquefaction
Convection	Trench	Ridge or rift valley
Seismic Waves		